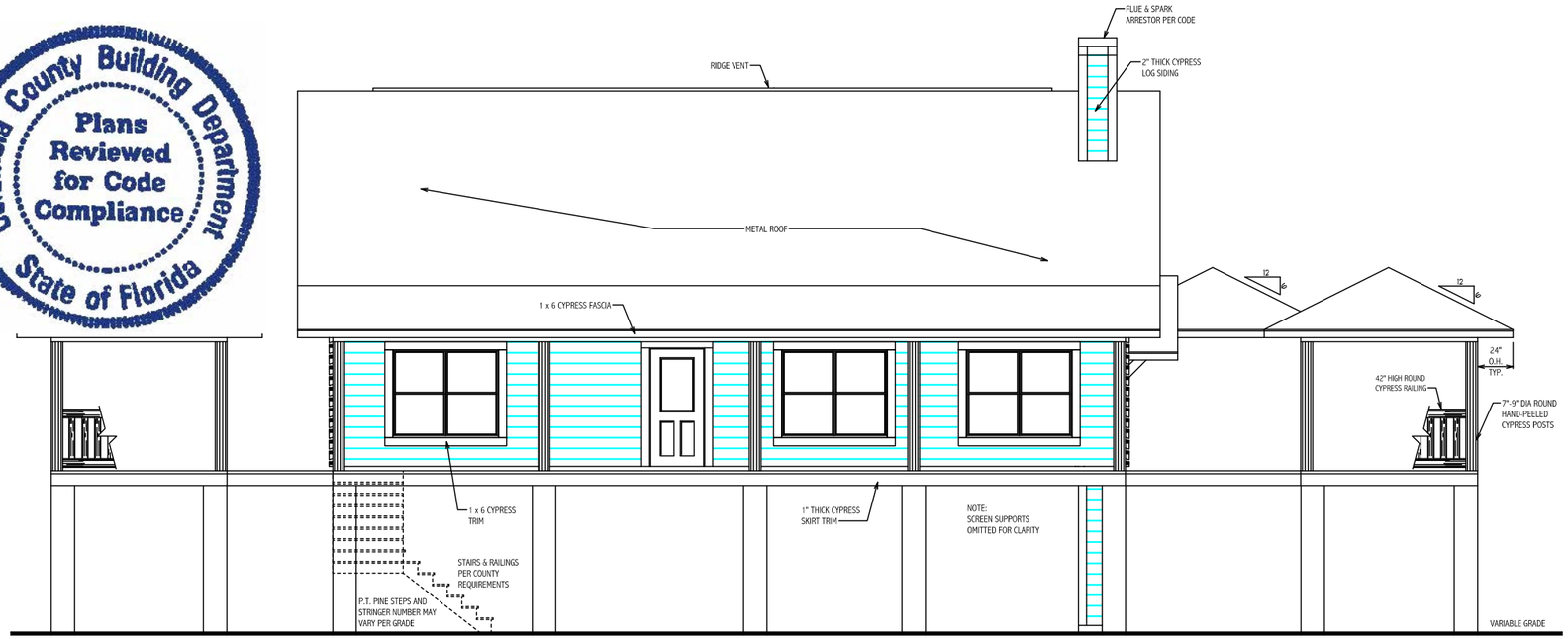
GENERAL NOTES:

1. Builder to verify all measurements and dimensions before construction.
2. This structure to be built to meet or exceed the Florida Building Code 2023, 8th Edition. Local and/or site conditions may require these specifications to be revised to achieve code compliance. In the event that the specification revisions are required, they are the sole responsibility of the owner.
3. This structure has been designed to meet 130 mph wind loads as per the Florida Building Code 2023, 8th Edition. △1
4. All Federal, State and Local codes, ordinances, regulations along with accepted and customary building practices etc., shall be considered as part of these building plans and shall take precedence over anything shown, described or implied where the same are at variance.
5. Grade requirements may vary according to soil conditions and County codes.
6. Truss Manufacturer to submit Florida Sealed Engineered scaled shop drawings for roof and floor framing to comply with all applicable codes.
7. Technical data from truss manufacturers shop drawings (primarily layouts) supercedes framing plans shown here on.
8. Any changes or alterations to these blueprints without written permission relieves BK CYPRESS LOG HOMES, INC. of any and all responsibility.
9. Any defects or errors found on these blueprints after the start of construction become the sole responsibility of the builder.
10. This home plan is designed and/or engineered to be used only with cypress materials produced by BK CYPRESS LOG HOMES, INC., and graded to specifications and strengths as specified in ASTM D-3957, and (IAS AA-664 code accreditation) for the Timber Products Inspection, Inc.
    Use of any other species and /or substitutions of lesser stamped grades of cypress shall render this plan VOID, and relieves BK CYPRESS LOG HOMES, INC. of any liability resulting from the unauthorized substitution and/or use.

STRUCTURAL NOTES

1. FOUNDATION DESIGN BASED ON A SOIL BEARING CAPACITY OF 1500 psf. FIELD VERIFICATION IS TO BE BY OWNER.
2. ALL CAST-IN -PLACE CONCRETE SHALL BE 3000 psi DESIGN MIX.
3. ALL REINFORCING BARS SHALL BE GRADE 60 CONFORMING TO ASTM A615.
4. COMPRESSIVE STRENGTH FOR MASONRY SHALL BE 1800 psi MIN. FOR MORTAR TYPE "M" OR "S".
5. ALL ANCHOR BOLTS TO CONFORM TO ASTM A36 OR A307.
6. UNLESS OTHERWISE SPECIFIED ALL NON CYPRESS LUMBER SHALL BE AS FOLLOWS:
   NO. 2 SOUTHERN YELLOW PINE OR BETTER FOR JOISTS, HEADERS, BEAMS, AND DECKING.
   NO. 1 SPRUCE PINE FIR OR BETTER FOR STUDS.
7. LIVE LOAD DEFLECTION LIMITATIONS ARE AS FOLLOWS:
   ROOF - L/240
   FLOOR - L/360
8. TOTAL DESIGN FLOOR LOAD IS 55 psf.
9. TOTAL DESIGN ROOF LOAD IS 40 psf.
10. ALL POLYETHYLENE MATERIALS TO CONFIRM TO ASTM C171.
11. ALL CYPRESS LOGS ARE DIMENSIONAL SIZES.
12. ALL PRE-MANUFACTURED METAL CONNECTORS SUCH AS BUT NOT LIMITED TO: HANGERS, HURRICANE CLIPS OR SHOP BUILT STEEL PLATES, MUST HAVE ALL HOLES FILLED WITH MANUFACTURER'S SPECIFIED FASTENERS, UNLESS OTHERWISE DIRECTED ON THESE PLANS.

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




**front elevation** scale 1/4"= 1'-0"

WIND DESIGN PRESSURES

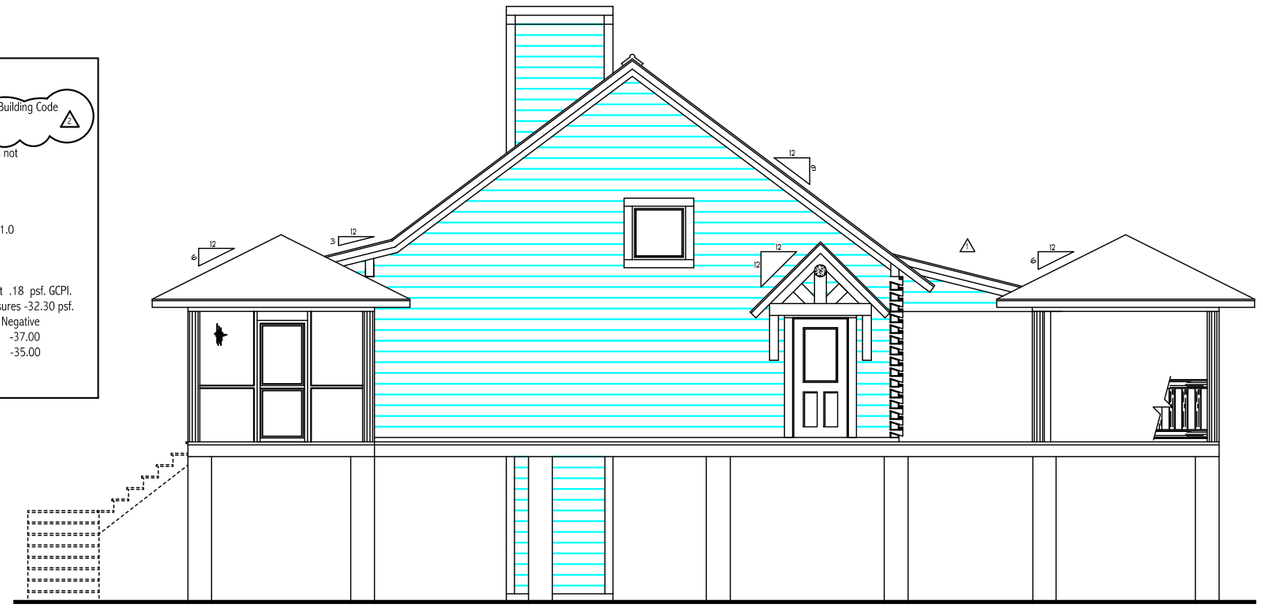
These plans are designed per 2023 Florida Building Code 8th Edition. △1

This structure is designed to withstand winds not exceeding 130 mph (3 sec. gust).

Wind forces as per ASCE 7-10
1. Basic Wind Speed, 130 mph.
2. Wind Importance Factor (WIF) Residential 1.0 & Building Category (BC) II.
3. Building designed Enclosed
4. Wind Exposure B.
5. The applicable internal pressure coefficient .18 psf. GCPI.
6. Components & Cladding design wind pressures -32.30 psf.

| Wind Pressures, (PSF) | Positive | Negative |
|---|---|---|
| Windows | 30.00 | -37.00 |
| Doors | 29.00 | -35.00 |

(worst case used for all doors & windows)




**right elevation** scale 1/4"= 1'-0"

**NOTE:**
Written dimensions take precedence over scale.

**NOTE:**
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This has been electronically signed and sealed by THOMAS BRENT WHITMAN, PE using a Digital Signature and time stamp. Printed copies of this document are not considered signed and sealed and the digital signature must be verified on any electronic copies.

Tomas B Whitman
2024.01.30 15:58:12 -05'00'

T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

front & right elevations & notes

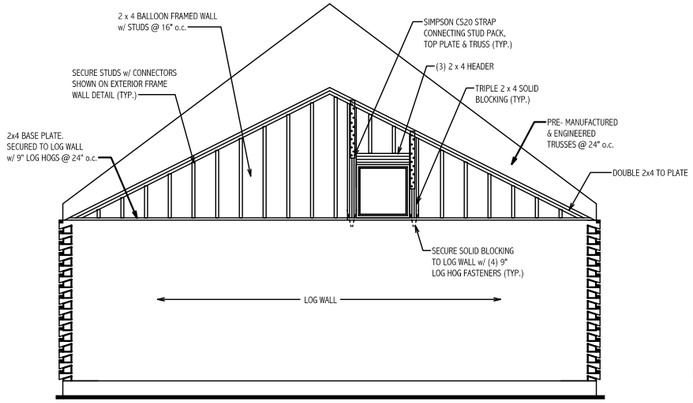
sheet 1 of 11

revisions
PD #5 - OCTOBER 15, 2020
PD #6 - JANUARY 1, 2021
FINAL - MARCH 15, 2023
REVISION #1 - APRIL 24, 2023
REVISION #2 - JANUARY 29, 2024

*Huckleberry Cabin for:*
**DON FROWICK**
7722 STILL LAKES DRIVE, ODESSA, FL 33556

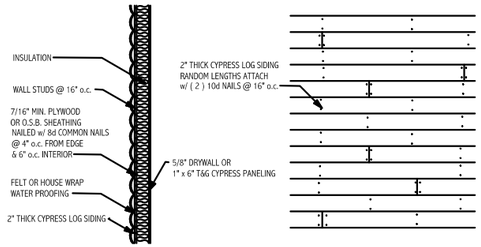
B K Cypress Log Homes
P.O. Box 191
Bronson, Florida 32621
Ph. (352)486-2470 (800) 553-1564

scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 KSjk




## gable end reinforcement

*scale 3/16"= 1'-0"*

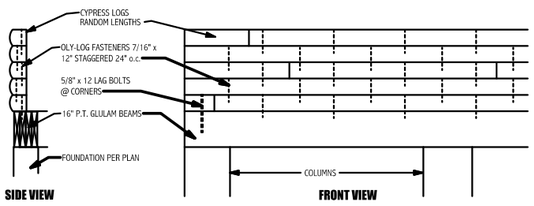



NOTE:
SIDING & PANELING PROFILE
IN DETAIL TYPICAL IN NATURE. SEE
SECTION DRAWING OR ELEVATION
FOR PROFILE TYPE.

NOTE:
REFER TO PLANS FOR SPECIFICS
SUCH AS STUD, PLYWOOD AND DRYWALL SIZES &
WATERPROOFING REQUIREMENTS

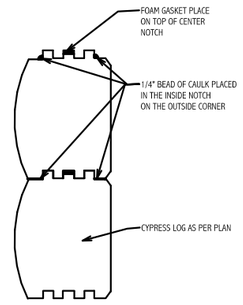
## frame wall with 2" thick log siding detail

not to scale




## oly-log fastener placement in log wall

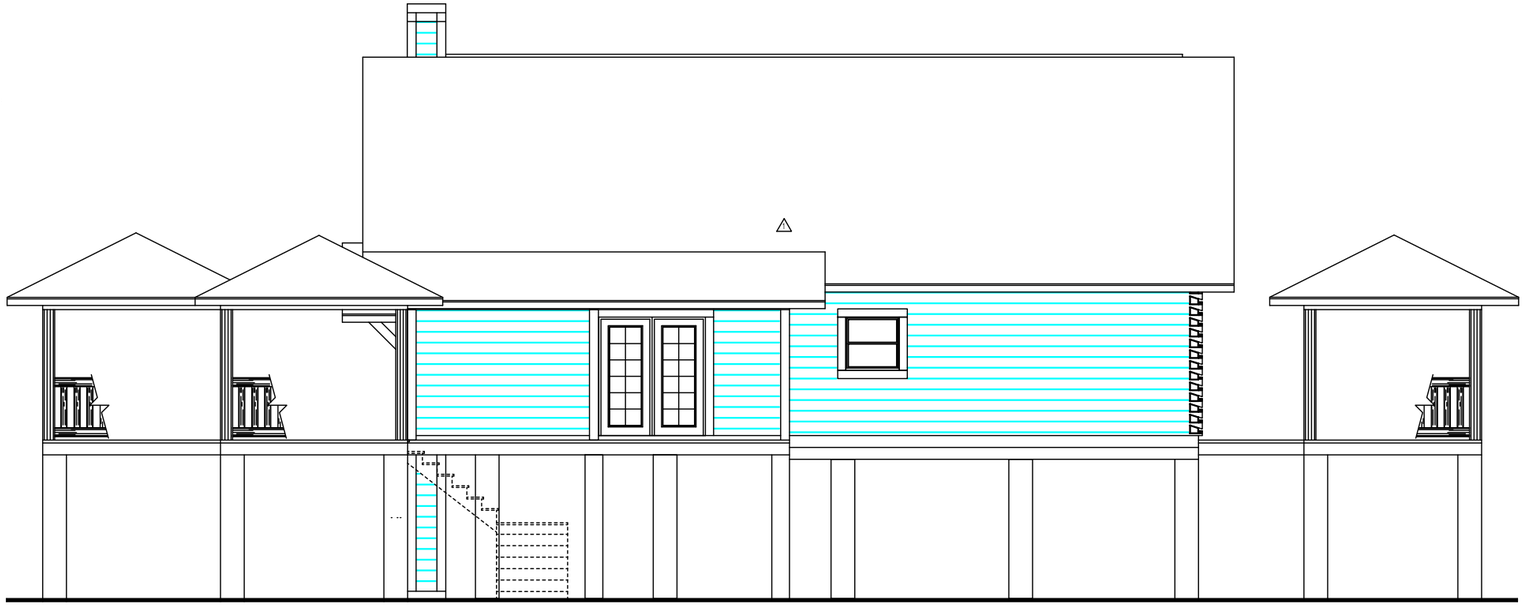
not to scale




NOTE:
THIS APPLICATION IS REQUIRED FOR
ALL LOGS NOT RECEIVING CHINKING

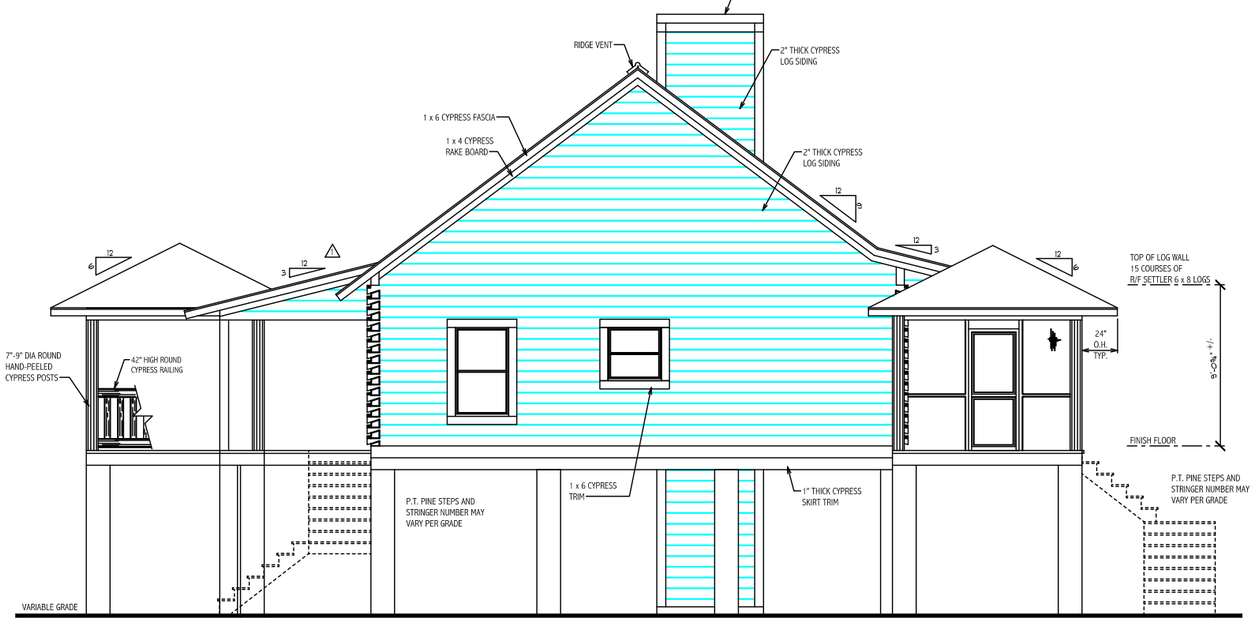
## foam gasket & caulk placement det.

not to scale



## rear elevation

*scale 1/4"= 1'-0"*




## left elevation

*scale 1/4"= 1'-0"*

Tomas B Whitman 2024.01.30 15:58:39 -05'00'

**NOTE:**
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**NOTE:**
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T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

rear & left elevations & details

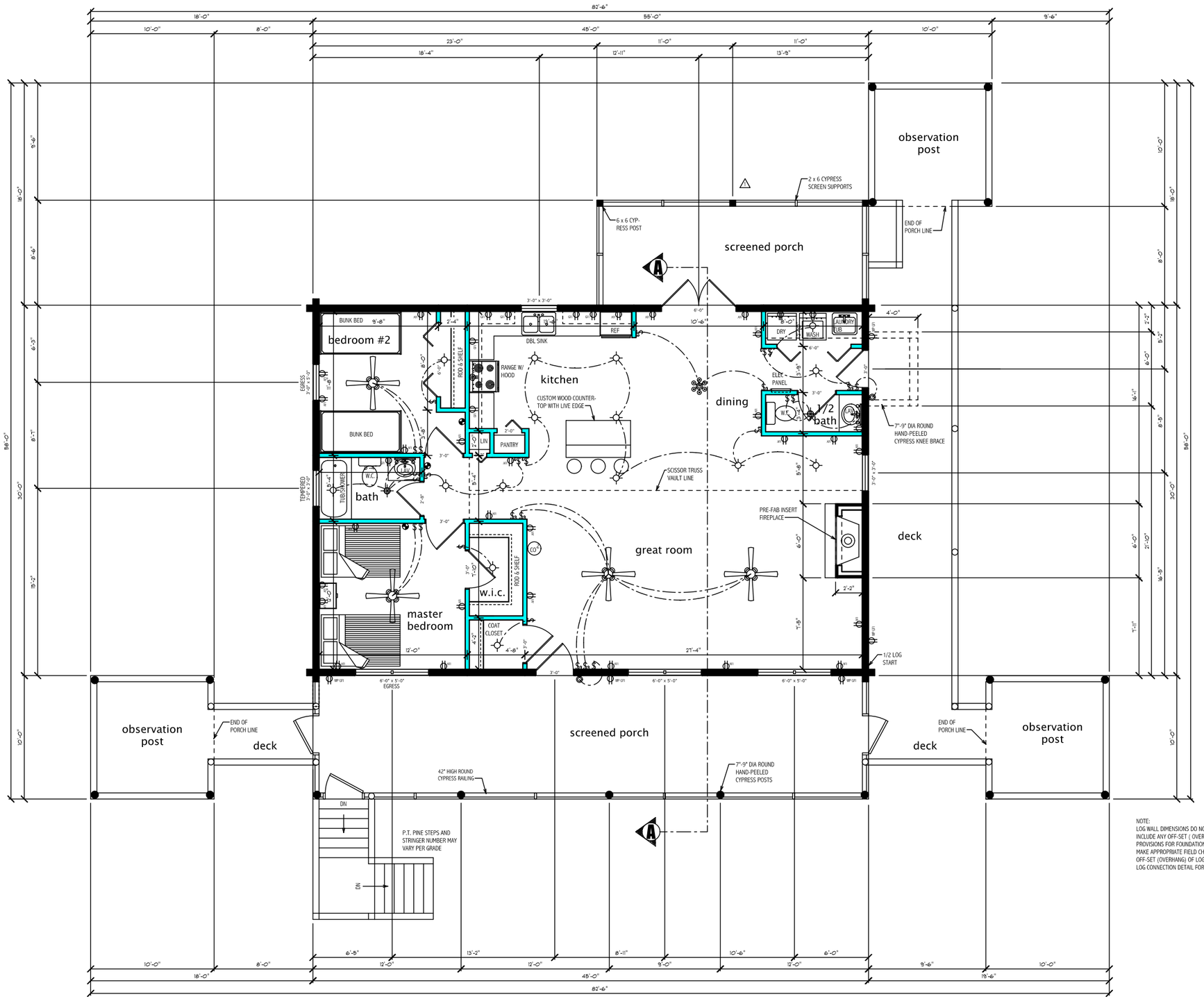
sheet 2 of 11

revisions
PD #5 - OCTOBER 15, 2020
PD #6 - JANUARY 1, 2021
FINAL - MARCH 15, 2023
REVISION #1 - APRIL 24, 2023
REVISION #2 - JANUARY 29, 2024

*Huckleberry Cabin for:*
**DON FROWICK**
7722 STILL LAKES DRIVE, ODESSA, FL 33556

*B K Cypress*
Log Homes
P.O. Box 191
Bronson, Florida 32621
Ph. (352)486-2470 (800) 553-1564

scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 KSjk




## floor plan

*scale 1/4"= 1'-0"*

## electrical legend

| | |
|---|---|
| WEATHER PROOF GROUND FAULT CIRCUIT INTERRUPTER | ELECTRICAL SERVICE PANEL |
| ARC FAULT CIRCUIT INTERRUPTER | SPLIT RECEPTACLE |
| GROUND FAULT CIRCUIT INTERRUPTER | LIGHT |
| SWITCH, 3 WAY SWITCH | RANGE RECEPTACLE |
| RECEPTACLE | DISHWASHER RECEPTACLE |
| 220 RECEPTACLE | DOUBLE SPOT LIGHT |
| WALL MOUNTED LIGHT | TELEPHONE JACK |
| RECESS LIGHT | TELEVISION JACK |
| SMOKE DETECTOR | MOTION DECT. LIGHT |
| TRACK AND/OR VANITY BAR | LAMP POST LIGHT |
| FLUORESCENT LIGHT | CHANDELIER |
| LIGHT & FAN COMB. (FAN TO BE VENTED TO THE OUTDOORS PER MFR'S SPECS.) | CEILING RECEPTACLE (GARAGE DOOR OPENER) |
| EXHAUST FAN (FAN TO BE VENTED TO THE OUTDOORS PER MFR'S SPECS.) | FLOOR RECEPTACLE |
| PULL SWITCH LIGHT | LIGHTED PADDLE CEILING FAN (OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING SUSPENDED PADDLE FANS) |
| PADDLE CEILING FAN (OUTLET BOXES SHALL NOT BE USED AS THE SOLE SUPPORT FOR CEILING SUSPENDED PADDLE FANS) | |

NOTE:
ALL ELECTRIC WORK IS TO BE IN STRICT ACCORDANCE W/ LATEST REV. EDITION OF THE NATIONAL ELECTRIC CODE.

## Square Footage

| | |
|---|---|
| FIRST FLOOR. . . . . | 1350 |
| PORCHES/DECKS . . . . . | 1329 |
| TOTAL. . . . . | 2679 |

NOTE:
LOG WALL DIMENSIONS DO NOT INCLUDE ANY OFF-SET ( OVERHANG) PROVISIONS FOR FOUNDATION SKIRTING MATERIAL. MAKE APPROPRIATE FIELD CHANGES FOR ANY OFF-SET (OVERHANG) OF LOG WALLS. SEE SECTION & LOG CONNECTION DETAIL FOR ADDITIONAL INFORMATION.

**NOTE:**
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**NOTE:**
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T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

Tomas B Whitman
2024.01.30 15:59:44 -05'00'

# floor plan, elec legend, & sq. footage

sheet 3 of 11

revisions
PD #5 - OCTOBER 15, 2020
PD #6 - JANUARY 1, 2021
FINAL - MARCH 19, 2023
REVISION #1 - APRIL 24, 2023
REVISION #2 - JANUARY 29, 2024

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**B K Cypress Log Homes**
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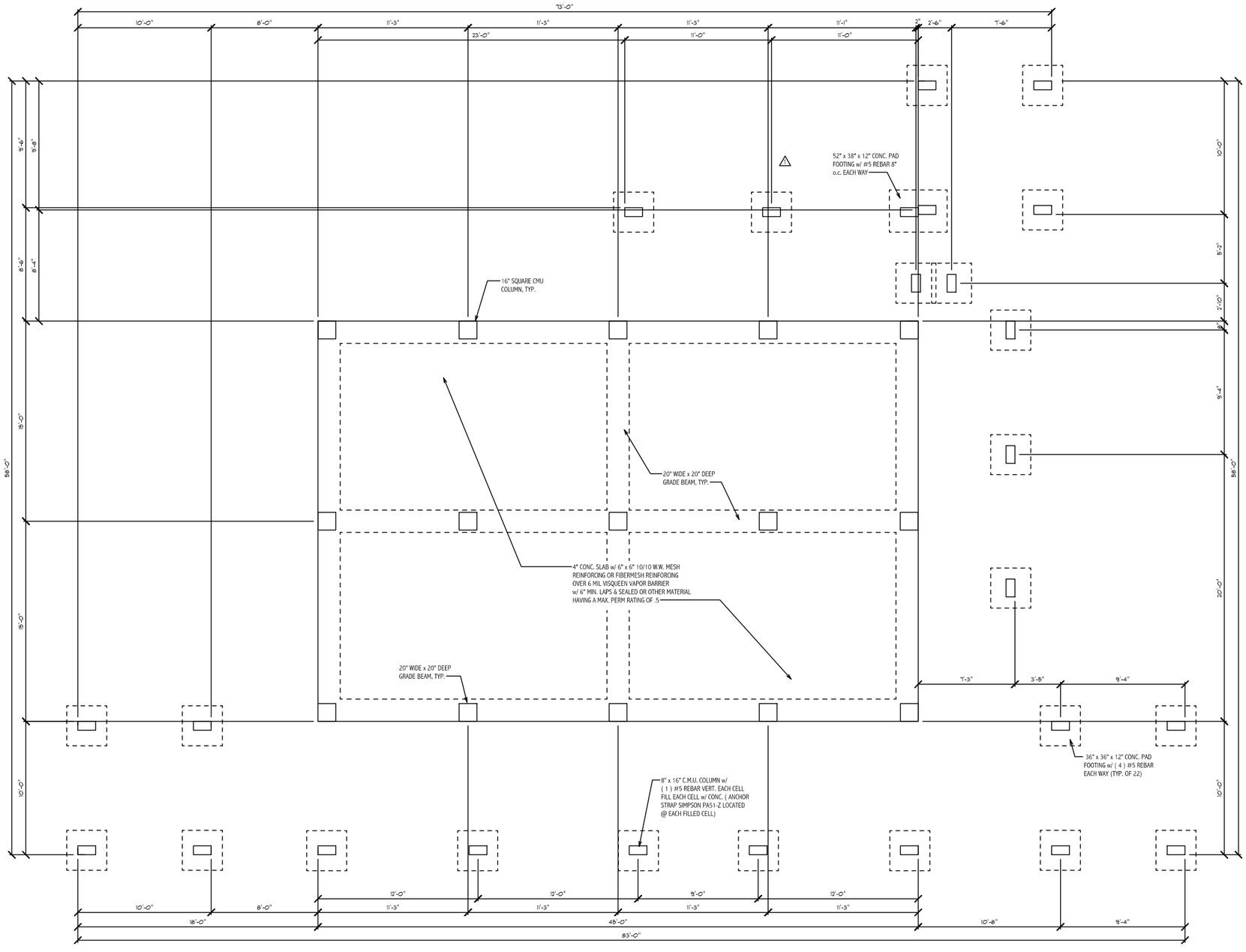
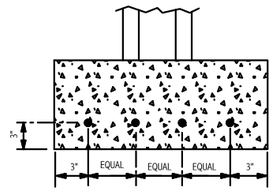
Bronson, Florida 32621
Ph. (352)486-2470 (800) 553-1564

scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 KSjk




## foundation plan

*scale 1/4"= 1'-0"*




**typ. wall footing rebar location**

not to scale

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P.E. Number: 63178

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Tomas B Whitman
2024.01.30 15:59:22 -05'00'

This has been electronically signed and sealed by TOMAS BRENT WHITMAN, PE using a Digital Signature and date. Printed copies of this document are not considered signed and sealed and the signature must be verified on any electronic copies.

**foundation plan & details**

**sheet** 4 of 11

**revisions**
PD #5 - OCTOBER 15, 2020
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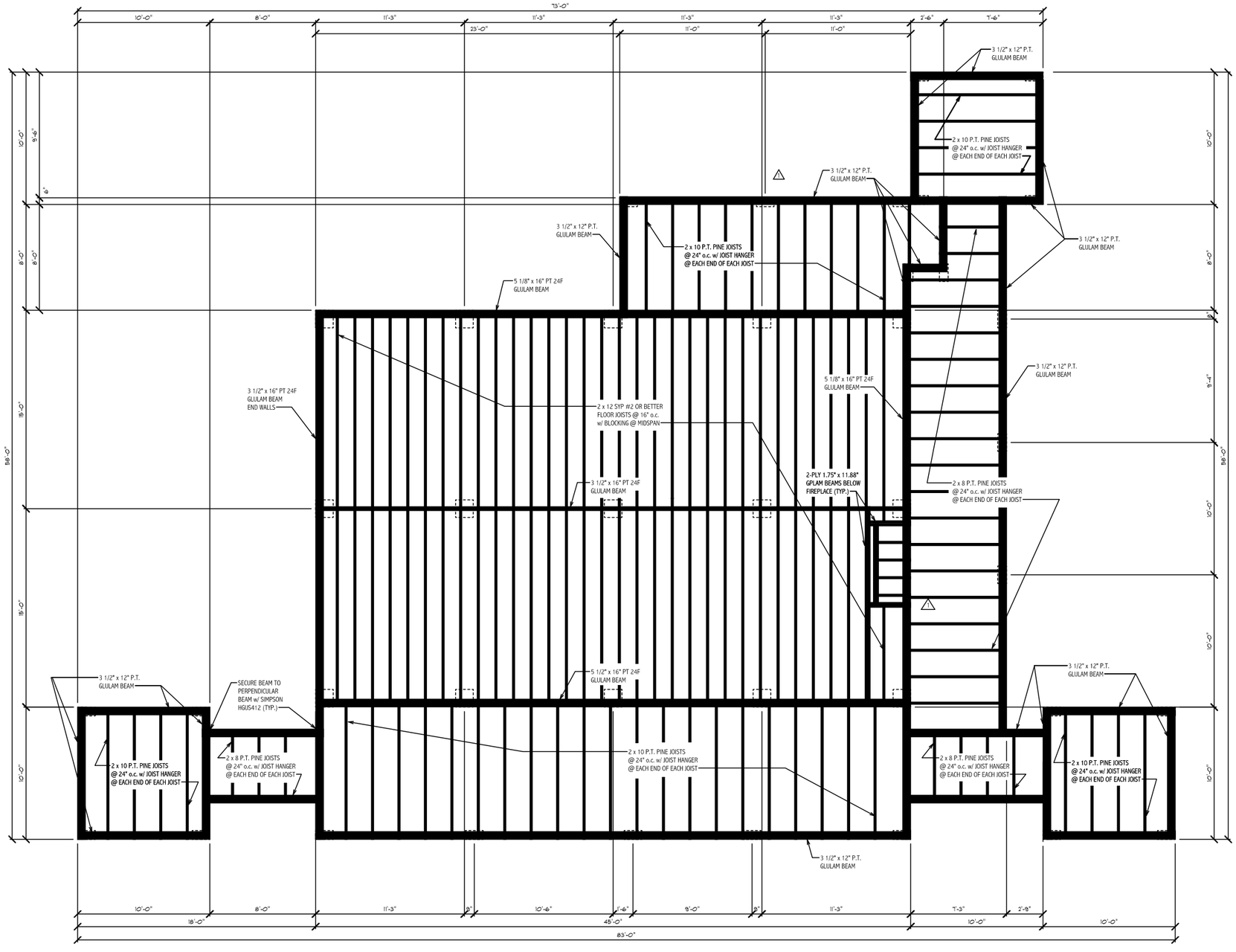


# floor framing plan

*scale 1/4"= 1'-0"*

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Tomas B Whitman
2024.01.30 16:00:08 -05'00'

T. Brent Whitman, P.E.
P.E. Number: 63178

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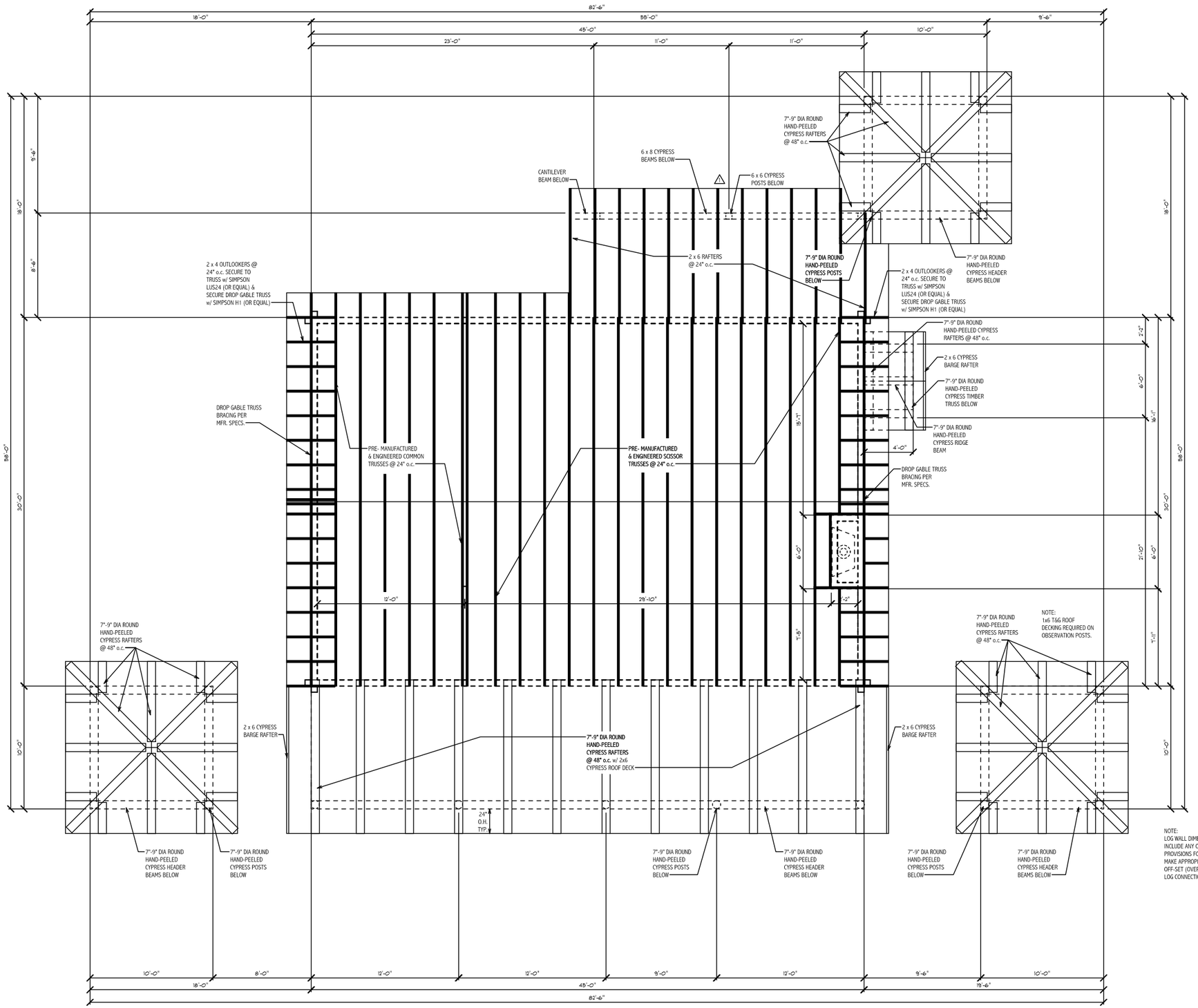
*Huckleberry Cabin for:*
**DON FROWICK**
7722 STILL LAKES DRIVE, ODESSA, FL 33556

**floor framing plan**

sheet 5 of 11




NOTE:
LOG WALL DIMENSIONS DO NOT INCLUDE ANY OFF-SET ( OVERHANG) PROVISIONS FOR FOUNDATION SKIRTING MATERIAL. MAKE APPROPRIATE FIELD CHANGES FOR ANY OFF-SET (OVERHANG) OF LOG WALLS. SEE SECTION & LOG CONNECTION DETAIL FOR ADDITIONAL INFORMATION.

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Tomas B Whitman
2024.01.30 16:00:29 -05'00'

T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

# roof framing plan

scale 1/4"= 1'-0"

**roof framing plan**

**revisions**
PD #5 - OCTOBER 15, 2020
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**sheet** 6 of 11

*Huckleberry Cabin for:*
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**B K Cypress** Log Homes

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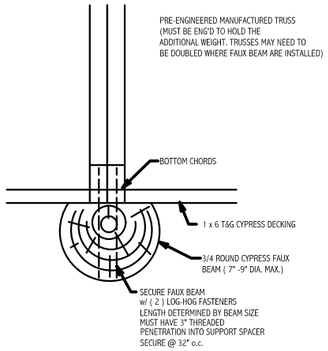
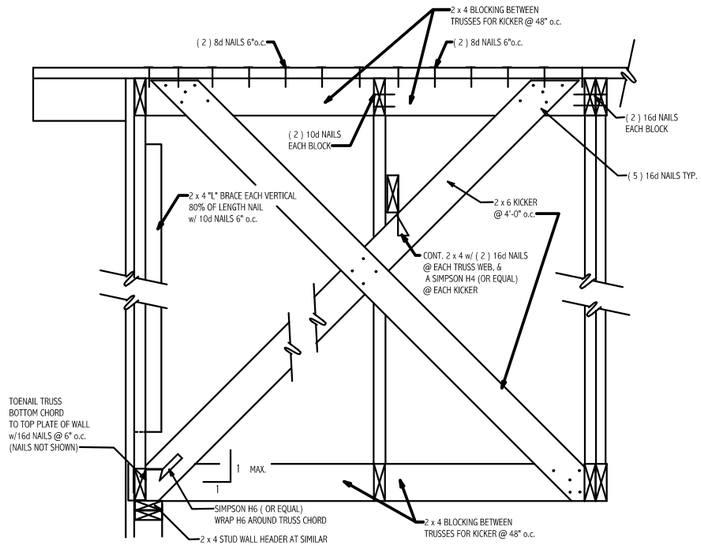



## solid faux beam connected to truss

NOTE:
FAUX BEAMS ADD SIGNIFICANT WEIGHT TO THE ROOF MEMBER
THE ROOF SYSTEM MUST BE DESIGNED, ENGINEERED, AND BUILT
TO HOLD THIS ADDITION WEIGHT.

# round faux beam connection details

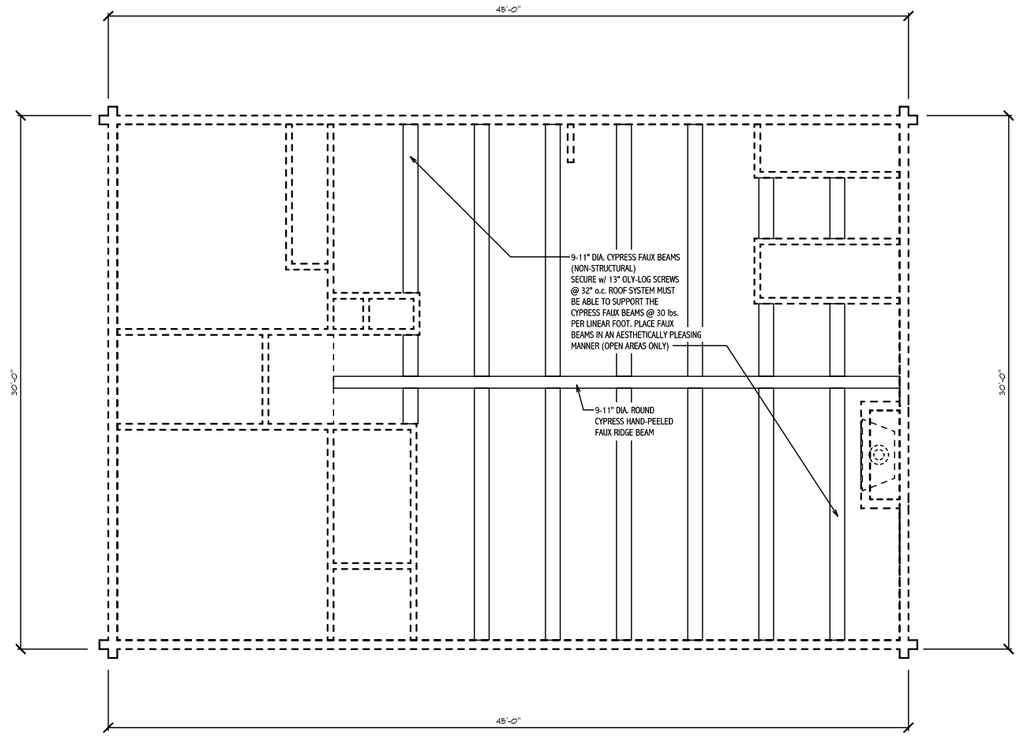
not to scale




NOTE:
THIS DETAIL IS GENERAL IN NATURE. LOCAL CODES &
MANUFACTURER'S INSTALLATION GUIDE SHALL TAKE
PRECEDENCE OVER ANYTHING SHOWN HERE.

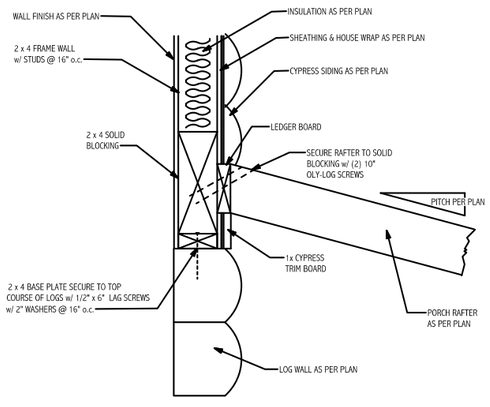
# truss gable end bracing & construction detail

not to scale




# roof faux beam plan

*scale 1/4"= 1'-0"*




SIDE VIEW

# porch rafter to frame wall connection detail

not to scale

Tomas B Whitman
2024.01.30 16:00:58 -05'00'

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P.E. Number: 63178

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**roof faux beam plan & details**

**revisions**
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sheet 7 of 11

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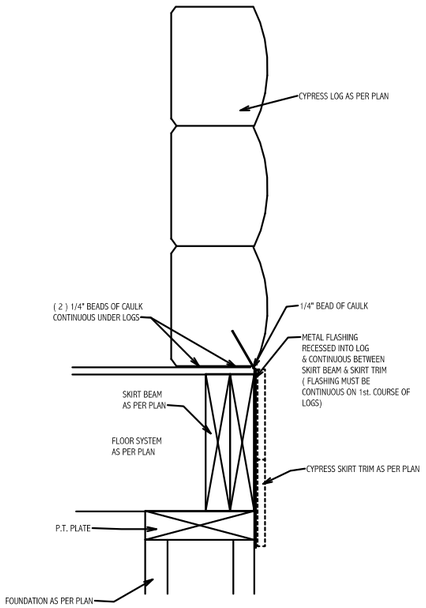
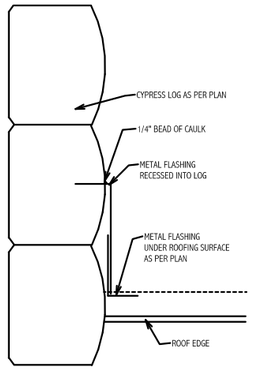



**log wall flashing to 1st. floor system detail**

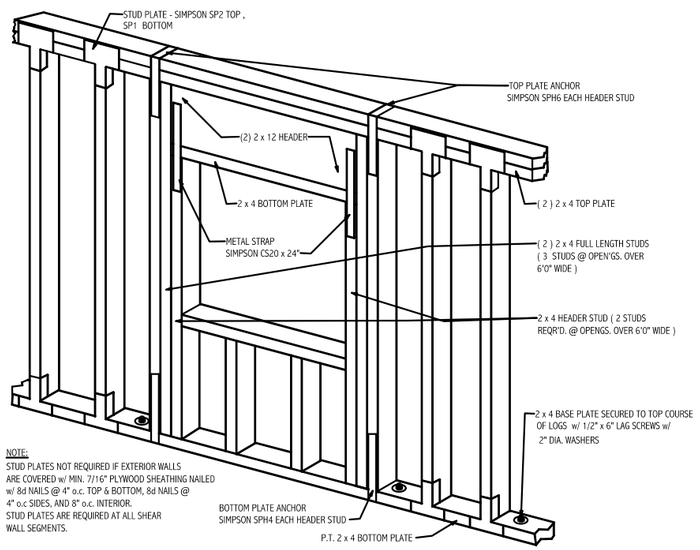
not to scale




**log wall to roof flashing detail**

not to scale

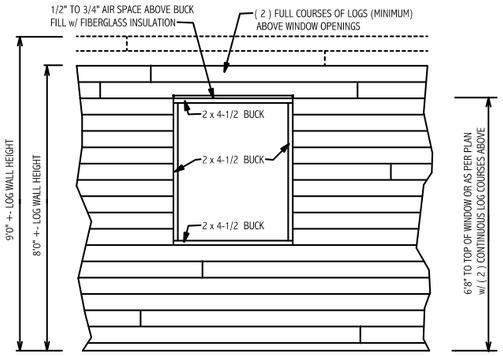
# log flashing details



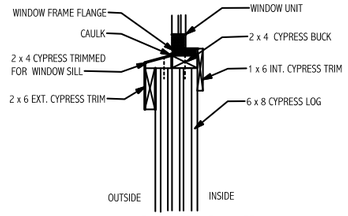

NOTE:
STUD PLATES NOT REQUIRED IF EXTERIOR WALLS ARE COVERED w/ MIN. 7/16" PLYWOOD SHEATHING NAILED w/ 8d NAILS @ 4" o.c. TOP & BOTTOM, 8d NAILS @ 4" o.c SIDES, AND 8" o.c. INTERIOR.
STUD PLATES ARE REQUIRED AT ALL SHEAR WALL SEGMENTS.

**opening in exterior frame walls**

not to scale

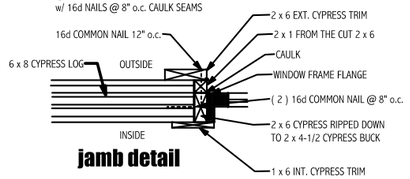



**window buck in log wall**




**exterior sill detail**

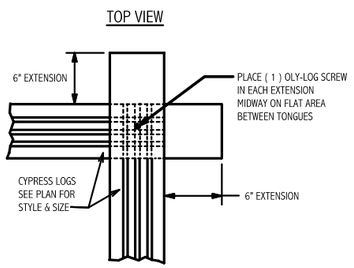
NOTE:
CUT 2 x 6 CYPRESS TO 2 x 4-1/2
SECURE TO LOG WALL
w/ ( 2 ) 16d COMMON NAILS
@ 12" o.c. SECURE TRIMMED PIECE
w/ 16d NAILS @ 8" o.c. CAULK SEAMS




**jamb detail**

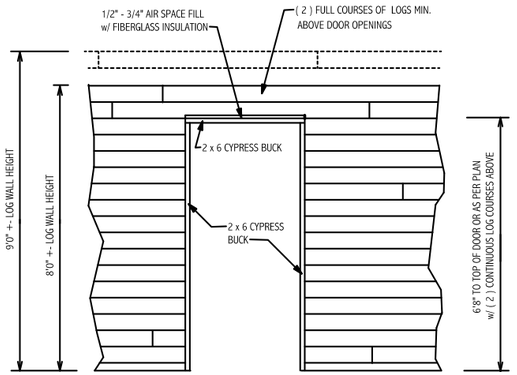
**window rough opening detail**

not to scale

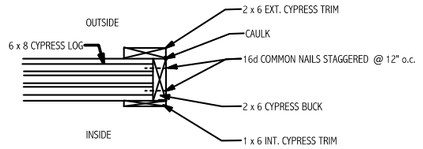



**dovetail corner detail**

not to scale




**door rough opening in log wall**

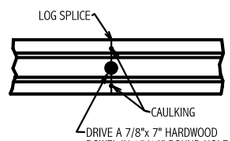



**jamb detail**

**pre-hung door rough opening in log wall detail**

not to scale

TOP VIEW




**splice detail**

not to scale

**NOTE:**
Written dimensions take precedence over scale.

**NOTE:**
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Tomas B Whitman 2024.01.30 16:01:20 -05'00'

T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

details

sheet 8 of 11

revisions
PD #5 - OCTOBER 15, 2020
PD #6 - JANUARY 1, 2021
FINAL - MARCH 15, 2023
REVISION #1 - APRIL 24, 2023
REVISION #2 - JANUARY 29, 2024

*Huckleberry Cabin for:*
**DON FROWICK**
7722 STILL LAKES DRIVE, ODESSA, FL 33556

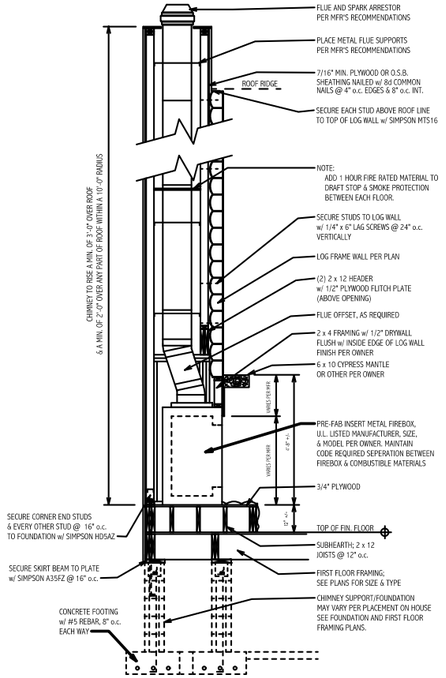
B K Cypress Log Homes
P.O. Box 191
Bronson, Florida 32621
Ph. (352)486-2470 (800) 553-1564

scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 KSjk

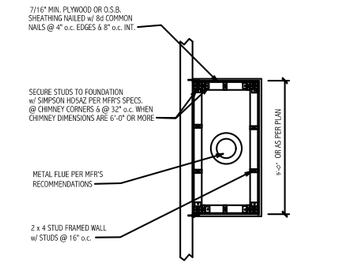
# opening schedule

| PRODUCT CODE | SIZE | COUNT | LIBRARY NAME |
|---|---|---|---|
| 36x80 | 3'-0" x 6'-8" | 2 | Door, Exterior |
| 2868 | 2'-8" x 6'-8" | 1 | Door, Interior |
| 3068 | 3'-0" x 6'-8" | 5 | Door, Interior |
| 72x80 FRENCH-2 | 6'-0" x 6'-8" | 1 | Door, Exterior |
| 1268 BF | 1'-2" x 6'-8" | 1 | Door, Interior, Bifold |
| 2068 BF | 2'-0" x 6'-8" | 1 | Door, Interior, Bifold |
| 6068 BF-2 | 6'-0" x 6'-8" | 2 | Door, Interior, Bifold |
| 36x36 CASEMENT | 3'-0" x 3'-0" | 1 | Window, Casement |
| 36x36 DOUBLE HUNG | 3'-0" x 3'-0" | 2 | Window, Dbl Hung |
| 36x36 DOUBLE HUNG TEMPERED | 3'-0" x 3'-0" | 1 | Window, Dbl Hung |
| 36x60 DOUBLE HUNG | 3'-0" x 5'-0" | 1 | Window, Dbl Hung |
| 72x60 DOUBLE HUNG-2 | 6'-0" x 5'-0" | 3 | Window, Dbl Hung |
| BUILDER TO VERIFY ALL WINDOWS & ROUGH OPENING SIZES | | | |

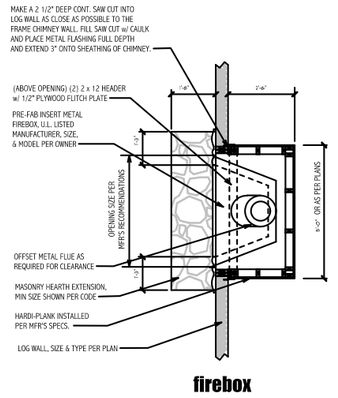
△




cross section




chimney above

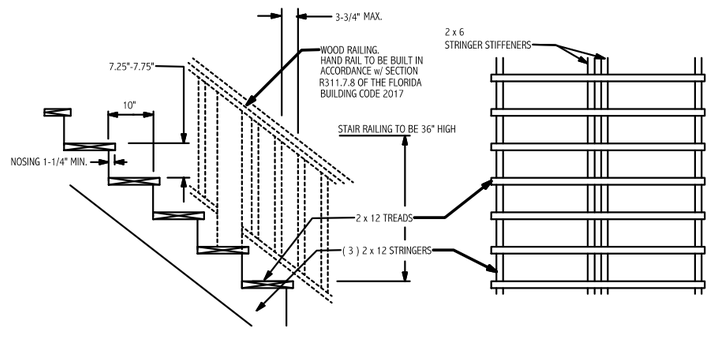



firebox

NOTE:
THIS DETAIL IS GENERAL IN NATURE. LOCAL CODES & MANUFACTURER'S INSTALLATION GUIDE SHALL TAKE PRECEDENCE OVER ANYTHING SHOWN HERE.

## pre-fab insert fireplace detail

not to scale




SIDE VIEW FRONT VIEW

## typical stair detail

not to scale

Tomas B Whitman 2024.01.30 16:01:42 -05'00'

T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

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B K Cypress Log Homes
P.O. Box 191
Bronson, Florida 32621
Ph. (352)486-2470 (800) 553-1564

scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 KSJk

**revisions**
PD #5 - OCTOBER 15, 2020
PD #6 - JANUARY 1, 2021
FINAL - MARCH 15, 2023
REVISION #1 - APRIL 24, 2023
REVISION #2 - JANUARY 29, 2024

*Huckleberry Cabin for:*
**DON FROWICK**
7722 STILL LAKES DRIVE, ODESSA, FL 33556

**opening schedule & details**

sheet 9 of 11

NOTES:
PRE- ENGINEERED WOOD TRUSS FABRICATION & ERECTION DRAWINGS ARE TO BEAR THE SEAL & DATED SIGNATURE OF A FLORIDA REGISTERED PROFESSIONAL ENGINEER.

THE TRUSS MANUFACTURER'S ENGINEER IS TO DETERMINE THE CHORD, WEB, BRACING, ATTACHMENTS, CONNECTORS & WHEN APPLICABLE, INTERIOR PITCH.

ANY TRUSS ILLUSTRATIONS SHOW IN THESE PLANS WILL BE STRICTLY A VISUALIZATION AID.

THE LOG OFF-SETS OVER THE FOUNDATION MUST BE ADDED TO THE FOOTPRINT DIMENSION FOR AN ACCURATE TRUSS MEASUREMENT.

INFILTRATION NOTES:

CODE REQUIRES THAT THE BUILDING THERMAL ENVELOPE SHALL BE DURABLY SEALED TO LIMIT INFILTRATION & AIR LEAKAGE SHALL NOT EXCEED 0.5 CFM/SQ. FT. WHEN SUBJECTED TO AN AIR PRESSURE GRADIANT OF 25 PASCAL. THE FOLLOWING SHALL BE CAULKED, GASKETED, WEATHERSTRIPPED, OR OTHERWISE SEALED WITH AN AIR BARRIER MATERIAL, SUITABLE FILM, OR SOLID MATERIAL:
1. ALL JOINTS, SEAMS & PENETRATIONS.
2. SITE BUILT WINDOWS, DOORS & SKYLIGHTS.
3. OPENINGS BETWEEN WINDOW & DOOR ASSEMBLIES AND THEIR RESPECTIVE JAMBS & FRAMING.
4. UTILITY PENETRATIONS.
5. DROPPED CEILINGS & CHASES ADJACENT TO THE THERMAL ENVELOPE.
6. KNEE WALLS.
7. WALLS & CEILINGS SEPERATING THE GARAGE FROM CONDITIONED SPACES.
8. BEHIND TUBS & SHOWERS ON EXTERIOR WALLS.
9. COMMON WALLS BETWEEN DWELLING UNITS.
10. OTHER SOURCES OF INFILTRATION.

INSULATION NOTES:

1. IF USING BATT. INSULATION, TAPED GYPSUM DRYWALL OR OTHER APPROVED AIR BARRIER MUST BE INSTALLED ABOVE T&G CEILING & ACCUVENT OR EQUIVILANT BAFFLE ABOVE INSULATION PER MFR'S RECOMMENDED AIR GAP.

2. ONLY INSTALL CAN LIGHTING PER LIGHTING MFR'S RECOMMENDATIONS.

3. IF USING AN UNVENTED INSULATION SYSTEM IT MUST BE INSTALLED USING ONE OF THE FOLLOWING METHODS:

a. INSTALL SPRAY FOAM (EITHER OPEN-CELL FOAM OR CLOSED-CELL FOAM) AGAINST THE UNDERSIDE OF THE ROOF SHEATHING, AND NO OTHER TYPE OF INSULATION. BUILDER TO VERIFY THAT THE THICKNESS OF SPRAY FOAM IS ADEQUATE TO MEET MINIMUM CODE REQUIREMENTS.

b. INSTALL RIGID FOAM INSULATION ABOVE THE ROOF SHEATHING AND AIR-PERMEABLE INSULATION BETWEEN THE RAFTERS. IF YOU CHOOSE THIS METHOD, IT'S POSSIBLE TO INSTALL VENT CHANNELS BETWEEN THE TOP OF THE RIGID FOAM AND THE TOP LAYER OF ROOF SHEATHING BY INSTALLING A SERIES OF PARALLEL 2x4s - ONE ABOVE EACH RAFTER - EXTENDING FROM SOFFIT TO RIDGE.

c. INSTALL A LAYER OF CLOSED-CELL SPRAY FOAM AGAINST THE UNDERSIDE OF THE ROOF SHEATHING, AND FILL THE REST OF THE RAFTER CAVITY WITH AN AIR-PERMEABLE INSULATION.

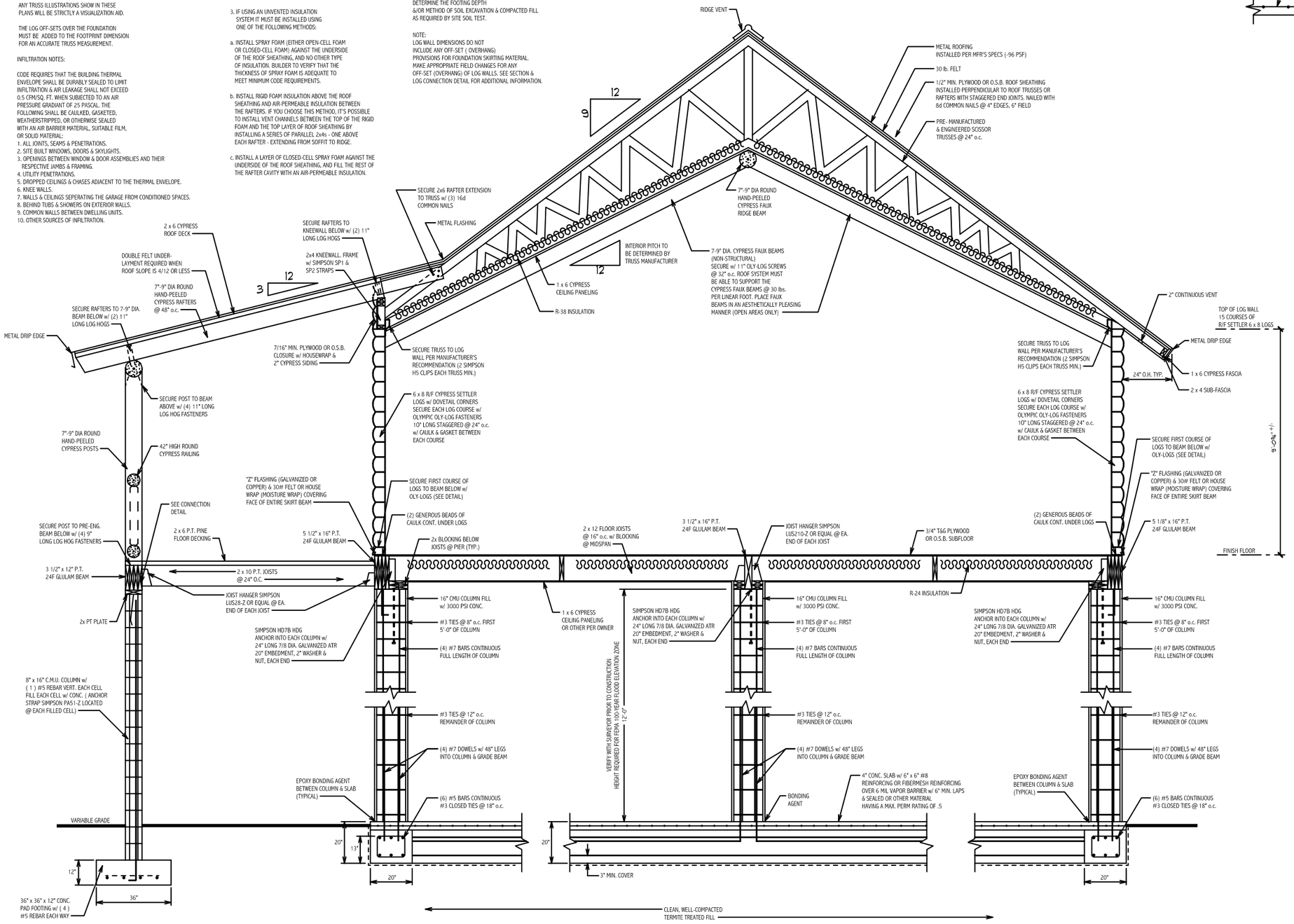
NOTES:
BUILDER TO CONFIRM FOUNDATION HEIGHT COMPLIES WITH FLOOD ZONE LOCATION REQUIREMENTS.

REGULATIONS & LAWS AS TO SITE, LAND USE, ZONING, & ETC. ARE THE RESPONSIBILITY OF THE OWNER &/OR BUILDER.

SITE PREPARATION & METHOD OF SOIL EXCAVATION, COMPACTED FILL, GRADE, & TERRACING BY OWNER

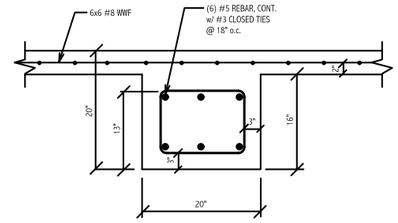
IT IS ADVISABLE TO HAVE A GEO-TECHNICAL ENGINEER DETERMINE THE FOOTING DEPTH &/OR METHOD OF SOIL EXCAVATION & COMPACTED FILL AS REQUIRED BY SITE SOIL TEST.

NOTE:
LOG WALL DIMENSIONS DO NOT INCLUDE ANY OFF-SET ( OVERHANG) PROVISIONS FOR FOUNDATION SKIRTING MATERIAL. MAKE APPROPRIATE FIELD CHANGES FOR ANY OFF-SET (OVERHANG) OF LOG WALLS. SEE SECTION & LOG CONNECTION DETAIL FOR ADDITIONAL INFORMATION.



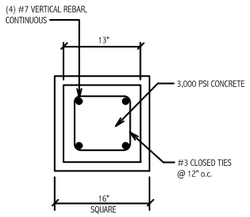

## section A-A

*Scale 1/2"=1'-0"*




GRADE BEAM SECTION B-B

SCALE: 3/4" = 1'-0"




COLUMN VERTICAL SECTION A-A

SCALE: 3/4" = 1'-0"

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T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

Tomas B Whitman
2024.01.30 16:02:04 -05'00'

**Section A-A**

sheet 10 of 11

revisions
PD #5 - OCTOBER 15, 2020
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FINAL - MARCH 15, 2023
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*Huckleberry Cabin for:*
**DON FROWICK**
7722 STILL LAKES DRIVE, ODESSA, FL 33556

*B K Cypress* Log Homes

P.O. Box 191
Bronson, Florida 32621
Ph. (352)486-2470 (800) 553-1564

scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 KSjk

*ICC EVALUATION SERVICE, INC.*

BUSINESS/REGIONAL OFFICE . 5360 WORKMAN MILL ROAD, WHITTIER, CA . 562/699-0543
REISSUED JANUARY 2016

DIVISION: 06 00 00 - WOOD, PLASTICS AND COMPOSITES
SECTION: 06 05 23 - WOOD, PLASTIC, AND COMPOSITE FASTENINGS

REPORT HOLDER:

OMG, INC.
153 BOWLES ROAD
AGAWAM, MASSACHUSETTS 01001
(413) 789-0252

ADDITIONAL LISTEE:

MITEK INDUSTRIES, INC.
14515 NORTH OUTER FORTY, SUITE 300
CHESTERFIELD, MISSOURI 63017
(314) 434-1200

EVALUATION SUBJECT:

FASTENMASTER LOK SERIES STRUCTURAL WOOD SCREWS

1.0 EVALUATION SCOPE

COMPLIANCE WITH THE FOLLOWING CODES:
-2015, 2012, 2009 and 2006 INTERNATIONAL BUILDING CODE (IBC)
-2015, 2012, 2009 and 2006 INTERNATIONAL RESIDENTIAL CODE (IRC)

PROPERTIES EVALUATED:

STRUCTURAL
CORROSION RESISTANCE

2.0 USES

The FastenMaster LOK Series fasteners described in this report are alternate dowel-type threaded fasteners used for wood-to-wood connections.

The FastenMaster LOK Series fasteners described in Sections 3.1.1 through 3.1.4 may be used where fasteners are required to exhibit corrosion resistance when exposed to adverse environmental conditions and/or in preservative-treated wood (subject to the limitations of Section 5.2), and are alternates to hot-dip-zinc galvanized fasteners with a coating weight in compliance with ASTM A153, Class D. The fasteners have been evaluated for use with wood chemically treated with waterborne alkaline copper quartenary, type D (ACQ-D).

3.0 DESCRIPTION

3.1 General:

The LOK Series fasteners described in this report are manufactured using a standard cold-forming process and are heat-treated. These fasteners depart from ANSI B18.2.1 and B18.6.1 in thread design, exceed the bending yield strengths documented in Table 5 of American Forest & Paper Association (AF&PA) Technical Report 12, and are not installed with lead holes in accordance with the ANSI/AWC National Design Specification (NDS) for Wood Construction. The LOK Series fasteners recognized in this report are described in Sections 3.1.1 through 3.1.5. Product names for fasteners sold by MiTek Industries are shown in Table 7.

3.1.1 OlyLog and TimberLOK Fasteners: The OlyLog and TimberLOK fasteners have a 5/16-inch (7.9 mm) hex-head, rolled threads and a gimlet point. they have a proprietary corrosion-resistant coating with a lubricious clear top coat. See Table 1A for fastener dimensions and a diagram.

3.1.2 HeadLOK Fasteners: The HeadLOK fasteners have a proprietary #3 Spider-drive head, rolled threads and a gimlet point. They have a proprietary corrosion-resistant coating.

3.1.3 LedgerLOK and LogHog Fasteners: The LedgerLOK and LogHog fasteners have a 5/16-inch (7.9 mm) hex-head with integral washer, rolled threads and a gimlet point. The LedgerLOK fasteners have a proprietary corrosion-resistant coating with a lubricious clear top coat. The LogHog fasteners have a proprietary corrosion-resistant coating. See Table 1B for fastener dimensions and a diagram.

3.1.4 TrussLOK and TussLOK-Z Fasteners: The TrussLOK and TrussLOK-Z fasteners have a 3/8-inch (9.5 mm) hex-head, rolled threads and proprietary cutting points. They have a proprietary corrosion-resistant coating with a lubricious clear top coat.

3.1.5 ThruLOK Fasteners: The ThruLOK fasteners have a 5/16-inch (7.9 mm) hex-head, rolled threads and a proprietary cutting point. The fasteners are coated with mechanically applied zinc in accordance with ASTM B695, Type I, Class 55. They are supplied with the ThruLOK washer and nut.

3.2 Materials:

3.2.1 Fasteners: The fasteners are made of carbon steel grade 1022 or 10B21 wire, conforming to the report holder's material specifications, and have a proprietary finish. Minimum bending yield strengths of the fasteners are listed in Tables 1A & 1B of this report.

3.2.2 Wood Members: Wood members must be solid-sawn lumber having a minimum assigned specific gravity as indicated in Tables 2, 3 and 4. Assigned specific gravity for solid-sawn lumber must be determined in accordance with Table 12.3.3A of the 2015 NDS (Table 11.3.3A of NDS-12 for the 2012 IBC, Table 11.3.2A of NDS-05 for the 2009 and 2006 IBC).

4.0 DESIGN AND INSTALLATION

4.1 Design

Reference withdrawal design values are given in Table 2 of this report. Reference head pull-through design values are given in Table 3 of this report. Reference lateral design values for wood-to-wood connections loaded parallel and perpendicular to the grain, are given in Table 4.

The reference design values given in Tables 2 through 4 must be multiplied by all adjustment factors applicable to wood screws, in accordance with the NDS, including the wet service factor, CM, where applicable. Reference head pull-through design values must be adjusted using the NDS adjustment factors applicable to withdrawal for wood screws.

The allowable load for a single-screw connection in which the screw is subject to tension must be taken as the least of: (a) the reference withdrawal design value given in Table 2, adjusted by all applicable adjustment factors; (b) the reference head pull-through design value given in Table 3, adjusted by all applicable adjustment factors; and (c) the allowable screw tension strength given in Tables 1A through 1F.

The allowable lateral load for a single-screw connection must be taken as the lessor of: (a) the reference lateral design value given in Table 4, adjusted by all applicable adjustment factors, and (b) the allowable screw shear strength given in Table 1A through 1F.

When designing a connection, the structural members must be checked for load-carrying capacity in accordance with Section 11.2.3 of NDS-15 (Section 10.1.2 of NDS-12 and NDS-05 for the 2012, 2009 and 2006 IBC), and local stresses within multiple-fastener connections must be checked against appendix E of the NDS to ensure the capacity of the connection and fastener group. Connections containing multiple screws must also be designed in accordance with Sections 11.2.2 and 12.6 of NDS-15 (Sections 10.2.2 and 11.6 of NDS-12 and NDS-05 for the 2012, 2009 and 2006 IBC).

Where the screws are subjected to combined lateral and withdrawal loads, connections shall be designed in accordance with Section 12.4.1 of the NDS-15 (Section 11.4.1 of NDS-12 and NDS-05 for the 2012, 2009 and 2006 IBC).

The FastenMaster LOK Series fasteners described in Sections 3.1.1 through 3.1.4 are recognized for use in wood chemically treated with waterborne alkaline copper quartenary, type D (ACQ-D), with a maximum retention of 0.40 pcf (6.4 kg/m3). These fasteners must be limited to use in typical applications and limitations defined in Table 6.

4.2 Installation:

The fasteners must be installed with a 1/2-inch (12.7 mm), low RPM/high torque electric drill (450 rpm) using the driver bit included in each box. Lead holes are not required. Fasteners must be installed at the minimum end and edge distances listed in Table 5 of this report.

The ThruLOK fastener must be installed with the ThruLOK washer and nut (supplied with the fastener). The ThruLOK fastener must penetrate through the opposite face of the main member a sufficient distance to allow the nut to be tightened snugly against the main member, with at least 1/2 inch (12.7 mm) of the threaded portion of the shank engaging the internal threads of the nut.

5.0 CONDITIONS OF USE

The fasteners described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in section 1.0 of this report, subject to the following conditions:

5.1 Design and installation of connections with FastenMaster LOK Series fasteners must comply with this report, the manufacturer's published instructions and the applicable code. In the event of a conflict between the manufacturer's published installation instructions and this report, the more restrictive governs.

5.2 Use of the fasteners in locations exposed to saltwater or saltwater spray is outside the scope of this evaluation report.

6.0 EVIDENCE SUBMITTED

6.1 Data in accordance with the ICC-ES Acceptance Criteria for Alternate Dowel-type Threaded Fasteners (AC233), dated April 2015.

6.2 Data in accordance with the ICC-ES Acceptance Criteria for Corrosion-resistant Fasteners and Evaluation of Corrosion Effects of Wood Treatment Chemicals (AC257), dated October 2009 (editorially revised May 2015).

7.0 IDENTIFICATION

Packages of fasteners are identified by the company name (OMG or MiTek), one of the product names shown in Table 7, the fastener size and the evaluation report number (ESR-1078). Head markings on the fasteners indicate fastener length and are applied as noted in Tables 1A through 1F.

TABLE 2-REFERENCE WITHDRAWAL DESIGN VALUES (W) [1,2,3]

[Reference withdrawal design values (W) are in pounds per inch of thread penetration into side grain of main member]

| FASTENER | THREAD LENGTH, $L_t$[4] (inches) | W (lb./in.) FOR SPECIFIC GRAVITIES OF: | | | | | |
|---|---|---|---|---|---|---|---|
| | | 0.57 | 0.55 | 0.5 | 0.46 | 0.43 | 0.42 |
| OlyLog/ TimberLOK | 1.25 or 2.0 | 270 | 260 | 220 | 200 | 180 | 170 |
| HeadLOK | 2.0 | 290 | 270 | 230 | 200 | 180 | 170 |
| LedgerLOK/ LogHog | 2.0 or 3.0 | 330 | 310 | 270 | 240 | 220 | 210 |
| TrussLOK | 1-1/2 | - | - | 180 | - | - | - |
| TrussLOK-Z | 1-1/4 | 290 | 270 | 220 | 180 | 160 | 150 |
| ThruLOK[5] | NA[6] | 1140[6] | 1060[6] | 900[6] | 780[6] | 700[6] | 680[6] |

For SI: 1 inch = 25.4 mm, 1 lbf/in = 175 N/m

[1] Tabulated reference withdrawal design values, W, apply to fasteners driven into the side grain of the main member, such that the screws are oriented perpendicular to the grain and loaded in direct withdrawal.
[2] Reference withdrawal design values must be multiplied by all applicable adjustment factors, in accordance with section 4.1.
[3] Reference withdrawal design values are to be multiplied by the length of thread penetration into the main member, but must not exceed the head pull-through design values given in Table 3. Threaded length includes the tapered tip.
[4] See Tables 1A through 1F for thread lengths corresponding to specific fastener model numbers.
[5] The ThruLOK must be used with with the ThruLOK washer and nut (supplied with the fastener). The nut must be installed such that it is snug against the main member, and at least 1/2 inch of the threaded portion of the shank (not including the tip) is within the nut.
[6] Tabulated withdrawal values for the ThruLOK are based on the head pull-through design values given in Table 3, as these values will govern designs in which the screw is subject to axial tension, where the ThruLOK is properly installed with the ThruLOK washer and nut (see footnote 5 above).

TABLE 3-REFERENCE HEAD PULL-THROUGH DESIGN VALUES (P) [1,2]

| FASTENER | MINIMUM SIDE MEMBER THICKNESS (inches) | P (lbf) FOR SPECIFIC GRAVITIES OF: | | | | | |
|---|---|---|---|---|---|---|---|
| | | 0.57 | 0.55 | 0.5 | 0.46 | 0.43 | 0.42 |
| OlyLog/ TimberLOK | 1.5 | 220 | 200 | 160 | 130 | 110 | 110 |
| HeadLOK | 1.5 | 630 | 600 | 520 | 460 | 410 | 400 |
| LedgerLOK/ LogHog | 1.5 | 320 | 290 | 240 | 200 | 180 | 170 |
| TrussLOK | 1.5 | - | - | 260 | - | - | - |
| TrussLOK-Z | 1.5 | 370 | 330 | 250 | 200 | 170 | 160 |
| ThruLOK[3] | 1.5 | 1140[3] | 1060[3] | 900[3] | 780[3] | 700[3] | 680[3] |

For SI: 1 inch = 25.4 mm, 1 pound = 4.448 kPa.

[1] Reference head pull-through design values, P, must be multiplied by all applicable adjustment factors, in accordance with Section 4.1.
[2] Design values apply to connections with minimum side member thickness, $t_1$, as given above.
[3] The ThruLOK must be used with with the ThruLOK washer and nut (supplied with the fastener). The nut must be installed such that it is snug against the main member, and at least 1/2 inch of the threaded portion of the shank (not including the tip) is within the nut.

TABLE 1A-FASTENER SPECIFICATIONS: OLYLOG AND TIMBERLOK FASTENERS

| OLYLOG/ TIMBERLOK FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH[1] (inches) | LENGTH OF THREAD[2] (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD[3] (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) | ALLOWABLE FASTENER STRENGTH Shear[4] (lbf) |
|---|---|---|---|---|---|---|---|---|
| TLOK212 or LOG212 | F2.5 | 2 1/2 | 1 1/4 | 0.189 | 0.172 | 167,300 | 1,300 | 940 |
| TLOK04 or LOG004 | F4.0 | 4 | 2 | | | | | |
| TLOK06 or LOG006 | F6.0 | 6 | 2 | | | 190,600 | | |
| TLOK08 or LOG008 | F8.0 | 8 | 2 | | | | | |
| LOG009 | F9.0 | 9 | 2 | | | | | |
| TLOK10 or LOG010 | F10.0 | 10 | 2 | | | | 1,145 | 800 |
| LOG012 | F12.0 | 12 | 2 | | | | | |
| LOG014 | F14.0 | 14 | 2 | | | | | |
| LOG016 | F16.0 | 16 | 2 | | | | | |

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 psi = 6.895 kPa.

[1] For purposes of measuring overall fastener length, fasteners must be measured from the underside of head to bottom of tip.
[2] Length of thread includes tip. See detailed illustration.
[3] Bending yield strength determined per methods specified in ASTM F1575 and based on the minor thread diameter. Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.




TABLE 1B-FASTENER SPECIFICATIONS: HEADLOK FASTENERS

| HEADLOK FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH[1] (inches) | LENGTH OF THREAD[2] (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | Bending Yield[3] (Fyb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (psi) | ALLOWABLE FASTENER STRENGTH Shear[4] (psi) |
|---|---|---|---|---|---|---|---|---|
| HLGM278 | F2.9HL | 2-7/8 | 2 | 0.191 | 0.172 | 187,300 | 1,215 | 965 |
| HLGM412 | F4.5HL | 4-1/2 | 2 | | | | | |
| HLGM6 | F6.0HL | 6 | 2 | | | | | |
| HLGM8 | F8.0HL | 8 | 2 | | | | | |
| HLGM10 | F10HL | 10 | 2 | | | | | |

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 psi = 6.895 kPa.

[1] For purposes of measuring overall fastener length, fasteners must be measured from the underside of head to bottom of tip.
[2] Length of thread includes tip. See detailed illustration.
[3] Bending yield strength determined per methods specified in ASTM F1575 and based on the minor thread diameter. Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

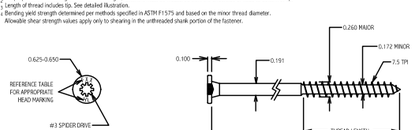


TABLE 1C-FASTENER SPECIFICATIONS: LEDGERLOK AND LOGHOG FASTENERS

| LEDGERLOK/ LOGHOG FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH[1] (inches) | LENGTH OF THREAD[2] (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD[3] (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) | ALLOWABLE FASTENER STRENGTH Shear[4] (lbf) |
|---|---|---|---|---|---|---|---|---|
| LL358 | F3.6 | 3 5/8 | 2 | 0.228 | 0.202 | 200,700 | 1, 833 | 1, 235 |
| LL005 | F5.0 | 5 | 3 | | | | | |
| LHOG009 | F9.0 | 9 | 3 | | | 183,200 | 1, 335 | 890 |
| LHOG011 | F11.0 | 11 | 3 | | | | | |
| LHOG013 | F13.0 | 13 | 3 | | | | | |
| LHOG015 | F15.0 | 15 | 3 | | | | | |

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 psi = 6.895 kPa.

[1] For purposes of measuring overall fastener length, fasteners must be measured from the underside of head to bottom of tip.
[2] Length of thread includes tip. See detailed illustration.
[3] Bending yield strength determined per methods specified in ASTM F1575 and based on the minor thread diameter. Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

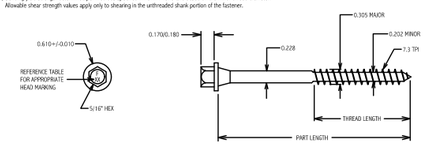


TABLE 1D-FASTENER SPECIFICATIONS: TRUSSLOK FASTENERS

| TRUSSLOK FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH[1] (inches) | LENGTH OF THREAD[2] (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD[3] (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) | ALLOWABLE FASTENER STRENGTH Shear[4] (lbf) |
|---|---|---|---|---|---|---|---|---|
| EWS338 | F3.3 | 3 3/8 | 1 1/2 | 0.228 | 0.215 | 218,400 | 1,833 | 1,235 |
| EWS005 | F5.0 | 5 | | | | | | |
| EWS670 | F6.7 | 6 7/10 | | | | | | |

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 psi = 6.895 kPa.

[1] For purposes of measuring overall fastener length, fasteners must be measured from the underside of head to bottom of tip.
[2] Length of thread includes tip. See detailed illustration.
[3] Bending yield strength determined per methods specified in ASTM F1575 and based on the minor thread diameter. Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

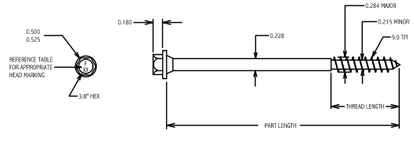


TABLE 1E-FASTENER SPECIFICATIONS: TRUSSLOK-Z FASTENERS

| TRUSSLOK-Z FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH[1] (inches) | LENGTH OF THREAD[2] (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD[3] (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) | ALLOWABLE FASTENER STRENGTH Shear[4] (lbf) |
|---|---|---|---|---|---|---|---|---|
| TSLZ278 | F2.8 | 2 7/8 | 1 1/4 | 0.228 | 0.202 | 218,400 | 1,833 | 1,235 |
| TSLZ412 | F4.5 | 4 1/2 | | | | | | |
| TSLZ006 | F6.0 | 6 | | | | | | |

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 psi = 6.895 kPa.

[1] For purposes of measuring overall fastener length, fasteners must be measured from the underside of head to bottom of tip.
[2] Length of thread includes tip. See detailed illustration.
[3] Bending yield strength determined per methods specified in ASTM F1575 and based on the minor thread diameter. Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

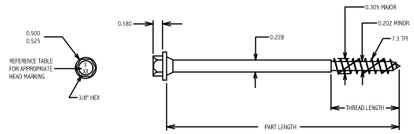


TABLE 1F-FASTENER SPECIFICATIONS: THRULOK FASTENERS[4]

| TRUSSLOK FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH (inches) | LENGTH OF THREAD[2,5] (inches) A | LENGTH OF THREAD[2,5] (inches) B | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD[3] (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) | ALLOWABLE FASTENER STRENGTH Shear[6] (lbf) |
|---|---|---|---|---|---|---|---|---|---|
| THR614 | FT6.2 | 6 1/4 | 5/9 | 1 2/10 | 0.228 | 0.201 | 218,400 | 1,970 | 1,235 |
| THR007 | FT7.0 | 7 | | | | | | | |
| THR008 | FT8.0 | 8 | | | | | | | |
| THR912 | FT9.5 | 9 1/2 | | | | | | | |

For SI: 1 inch = 25.4 mm, 1 lbf = 4.4 N, 1 psi = 6.895 kPa.

[1] For purposes of measuring overall fastener length, fasteners must be measured from the underside of head to bottom of tip.
[2] Length of thread includes tip. See detailed illustration.
[3] Bending yield strength determined per methods specified in ASTM F1575 and based on the minor thread diameter.
[4] The thread lengths given for the ThruLOK are for screws A and B, as depicted in the diagram below.
[5] Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.
[6] The ThruLOK fastener must be used with the ThruLOK washer and nut (supplied with the fastener).

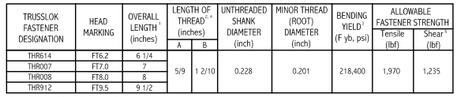


TABLE 4-REFERENCE LATERAL DESIGN VALUES (Z) FOR SINGLE SHEAR (TWO-MEMBER) WOOD-TO-WOOD CONNECTIONS
LOADED PARALLEL ($Z_{\parallel}$) OR PERPENDICULAR ($Z_{\perp}$) TO THE GRAIN [1,2]

| FASTENER Designation | FASTENER Length (inches) | MINIMUM SIDE MEMBER THICKNESS[3], $t_1$ (inches) | MINIMUM MAIN MEMBER PENETRATION,[4] p (inches) | Z (lbf) FOR MINIMUM SPECIFIC GRAVITIES OF: 0.5 $Z_{\perp}$ | 0.5 $Z_{\parallel}$ | 0.46 $Z_{\perp}$ | 0.46 $Z_{\parallel}$ | 0.42 $Z_{\perp}$ | 0.42 $Z_{\parallel}$ |
|---|---|---|---|---|---|---|---|---|---|
| OlyLog/ TimberLOK | 2 1/2[5] | 1 1/2 | 1 | 240 | 220 | 220 | 200 | 200 | 180 |
| | 4 & longer | 1 1/2 | 2 1/2 | 280 | 260 | 260 | 240 | 240 | 210 |
| | 6 & longer | 2 1/2 | 3 1/2 | 290 | 270 | 270 | 250 | 250 | 230 |
| | 8 & longer | 3 | 5 | 290 | 270 | 260 | 250 | 240 | 230 |
| HeadLOK | 2 7/8[5] | 1 1/2 | 1 3/8 | 240 | 210 | 220 | 180 | 210 | 150 |
| | 4 1/2 | 1 1/2 | 3 | 280 | 260 | 260 | 240 | 250 | 220 |
| | 6 & longer | 1 1/2 | 4 1/2 | 290 | 270 | 270 | 250 | 250 | 230 |
| | 6 & longer | 2 1/2 | 3 1/2 | 300 | 280 | 280 | 260 | 270 | 240 |
| | 8 & longer | 3 | 5 | 290 | 280 | 280 | 260 | 260 | 230 |
| LedgerLOK | 3 5/8[5] | 1 1/2[7] | 1[8] | - | 300 | - | - | - | - |
| | 3 5/8 | 1 1/2 | 1 1/2[8] | - | 260 | - | 220 | - | 220 |
| | 3 5/8 | 1 1/2 | 2 1/8 | 310 | 310 | 290 | 280 | 270 | 250 |
| | 5 | 1 1/2 | 3 1/2 | 320 | 300 | 300 | 280 | 280 | 260 |
| LogHog | 9 & longer | 6 | 3 | 310 | 300 | 290 | 280 | 270 | 260 |
| TrussLOK | 3 3/8 | 1 3/4 | 1 5/8 | 320 | 290 | 300 | 270 | 280 | 260 |
| | 5 | 1 3/4 | 3 1/4 | 330 | 300 | 310 | 270 | 290 | 250 |
| | 6 3/4 | 1 3/4 | 5 | 330 | 310 | 310 | 290 | 290 | 270 |
| TrussLOK-Z | 2 7/8 | 1 1/2 | 1 3/8 | 310 | 290 | 300 | 270 | 280 | 240 |
| | 4 1/2 | 1 1/2 | 3 | 320 | 290 | 300 | 270 | 290 | 250 |
| | 6 | 1 1/2 | 4 1/2 | 330 | 300 | 310 | 280 | 290 | 250 |

| FASTENER Designation | FASTENER Length (inches) | MINIMUM SIDE MEMBER THICKNESS[3], $t_1$ (inches) | MAIN MEMBER THICKNESS[3] (inches) Min | Max | Z (lbf) FOR MINIMUM SPECIFIC GRAVITIES OF: 0.5 $Z_{\perp}$ | 0.5 $Z_{\parallel}$ | 0.46 $Z_{\perp}$ | 0.46 $Z_{\parallel}$ | 0.42 $Z_{\perp}$ | 0.42 $Z_{\parallel}$ |
|---|---|---|---|---|---|---|---|---|---|---|
| ThruLOK[9] | 6 1/4 | 1 1/2 | 3 1/4 | 4 1/4 | 350 | 320 | 320 | 300 | 300 | 270 |
| | 7 | 1 1/2 | 4 | 5 | 350 | 330 | 320 | 300 | 300 | 270 |
| | 8 | 3 | 3 1/2 | 4 1/2 | 350 | 330 | 320 | 300 | 300 | 270 |
| | 9 1/2 | 1 1/2 | 6 1/2 | 7 1/2 | 350 | 330 | 320 | 300 | 300 | 270 |

For SI: 1 inch = 25.4 mm, 1 pound = 4.448 kPa.

[1] Tabulated reference lateral design values, Z, apply to single shear (two-member) connections with wood main and side members having specific gravity as shown, in which the screw is oriented perpendicular to the grain and loaded laterally either parallel or perpendicular to the grain. For connections in which the main & side members have different specific gravities, use the lower of the two. Gaps are not permitted between the main and side members.
[2] Values must be multiplied by all applicable adjustment factors, in accordance with Section 4.1.
[3] Unless otherwise noted, side members with thicknesses greater than the tabulated minimum side member thickness may be used, provided the corresponding tabulated minimum main member penetration is still achieved for the given screw length.
[4] Minimum main-member penetration is the minimum length of the screw (including threaded, unthreaded and tip length) that must be embedded within the main member. The entire threaded portion of the screw must be embedded in the main member, unless otherwise noted.
[5] The ThruLOK must be installed with the washer and nut, and must penetrate through the opposite face of the main member a sufficient distance to allow the nut to be tightened snugly against the main member, with at least 1/2 inch, and no more than 1 1/2 inches of the ThruLOK screw engaged within the nut.
[6] Full embedment of the threaded portion of the screw in the main member is not required.
[7] Side member thickness must not be increased.
[8] Thickness of main member. Fastener must penetrate through the main member.
[9] For connection of 1 1/2 inch wood side member with specific gravity of 0.50 to minimum 1 inch thick rimboard. Rimboard consists of laminated strand lumber (LSL) with an equivalent specific gravity of 0.50. Fastener must penetrate through the rimboard.

TABLE 5-CONNECTION GEOMETRY REQUIREMENTS[1]

| CONDITION | | MINIMUM DISTANCE OR SPACING: TimberLOK, OlyLog and HeadLOK | LedgerLOK, LogHog, TrussLOK and TrussLOK-Z | ThruLOK |
|---|---|---|---|---|
| End distance | Loading toward end | 3 | 3 3/4 | 3 3/8 |
| | Loading away from end | 2 | 2 3/8 | 2 3/8 |
| | Loading perpendicular to grain | 2 | 2 3/8 | 2 3/8 |
| Edge distance | Any load direction | 1 3/4 | 1 3/4 | 2 |
| Spacing between fasteners in a row | Loading parallel to grain | 2 7/8 | 3 1/2 | 3 1/2 |
| | Loading perpendicular to grain | 2 | 2 3/8 | 2 3/8 |
| Spacing between rows | In-line rows | 1 | 1 1/4 | 1 1/4 |
| | Staggered rows[2] | 1/2 | 5/8 | 5/8 |

For SI: 1 inch = 25.4 mm.

[1] End distances, edge distances and screw spacing must be sufficient to prevent splitting of the wood, or as required by this table, whichever is more restrictive.
[2] Values for spacing between staggered rows apply where screws in adjacent rows are offset by half of the spacing between screws in a row.

TABLE 6-RECOGNIZED EXPOSURE CONDITIONS FOR COATED FASTENMASTER LOK SERIES FASTENERS

| EXPOSURE CONDITION | TYPICAL APPLICATIONS | RECOGNITION LIMITATIONS |
|---|---|---|
| 1 | Treated wood in dry use applications | Limited to use where equilibrium moisture content of the chemically treated wood meets the dry service conditions as described in the NDS. |
| 3 | General construction | Limited to freshwater and chemically treated wood exposure, e.g., no saltwater exposure. |

[1] Recognized exposure conditions apply only to FastenMaster LOK Series fasteners having the recognized proprietary corrosion-resistant coating with a lubricious clear top coat.

TABLE 7-PRODUCT NAME CORRELATION

| OMG PRODUCT NAME | CORRESPONDING NAME FOR MITEK INDUSTRIES |
|---|---|
| TimberLOK/OlyLog | - |
| HeadLOK | - |
| LedgerLOK | - |
| LogHog | - |
| TrussLOK | TrussLOK-EWP |
| TrussLOK-Z | TrussLOK-Girder |
| ThruLOK | - |

Tomas B Whitman
2024.01.30 16:03:21 -05'00'

This has been electronically signed and sealed by TOMAS B WHITMAN using a Digital Signature and date. Printed copies of this document signed and sealed and the signature must be verified on any electronic copies.

**NOTE:**
Written dimensions take precedence over scale.

**NOTE:**
This log home plan is designed and/or engineered to be used only with materials produced by BK Cypress Log Homes.

Use of any other species and/or substitutions of lesser cypress logs and material shall render this plan VOID and release BK Cypress Log Homes of any liability resulting from the unauthorized substitution and/or use of such lesser cypress logs and material.



T. Brent Whitman, P.E.
P.E. Number: 63178

These plans will comply W/ the 2023 FBC, 8th Ed., for a 130 mph (3 sec gust) wind load.

details

sheet 11 of 11

revisions
PD #5 - OCTOBER 15, 2020
PD #6 - JANUARY 1, 2021
FINAL - MARCH 15, 2023
REVISION #1 - APRIL 24, 2023
REVISION #2 - JANUARY 29, 2024

*Huckleberry Cabin for:*
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scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 MSJK