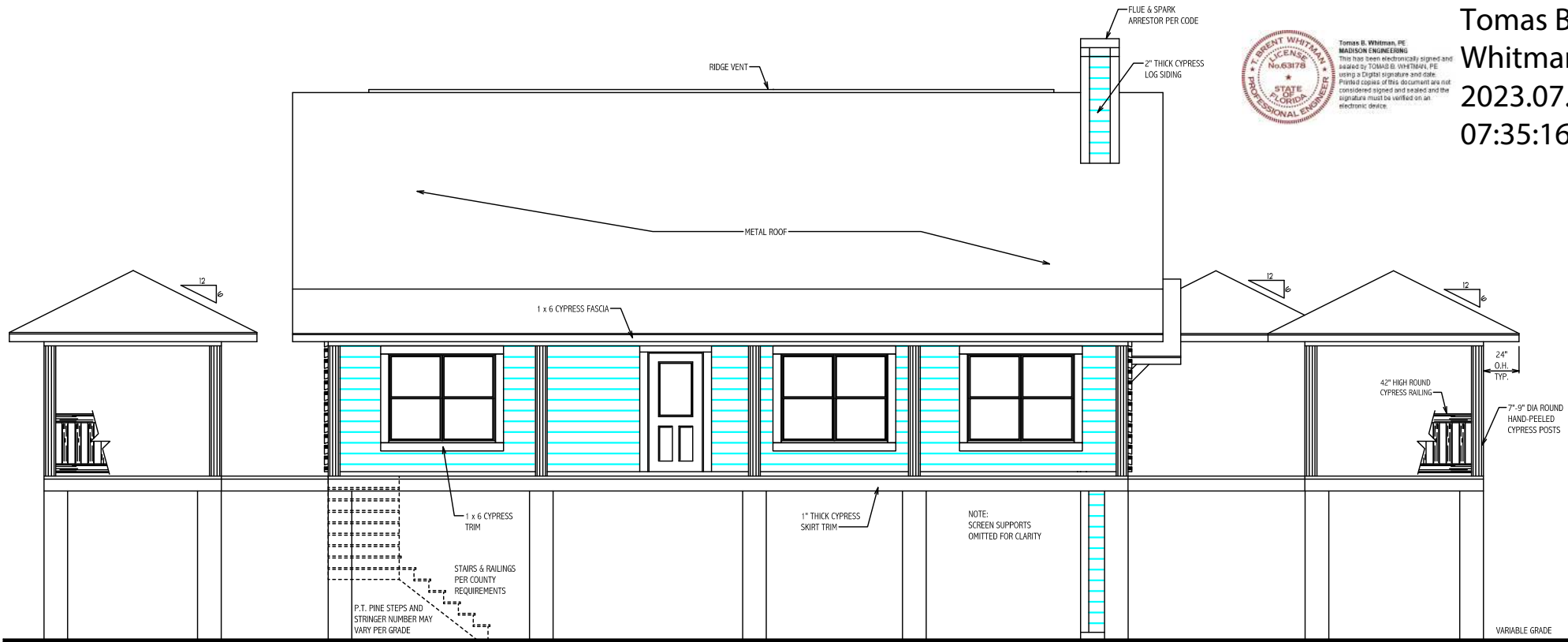


GENERAL NOTES:

1. Builder to verify all measurements and dimensions before construction.
2. This structure to be built to meet or exceed the Florida Building Code 2020, 7th 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 2020, 7th Edition.
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.



front elevation

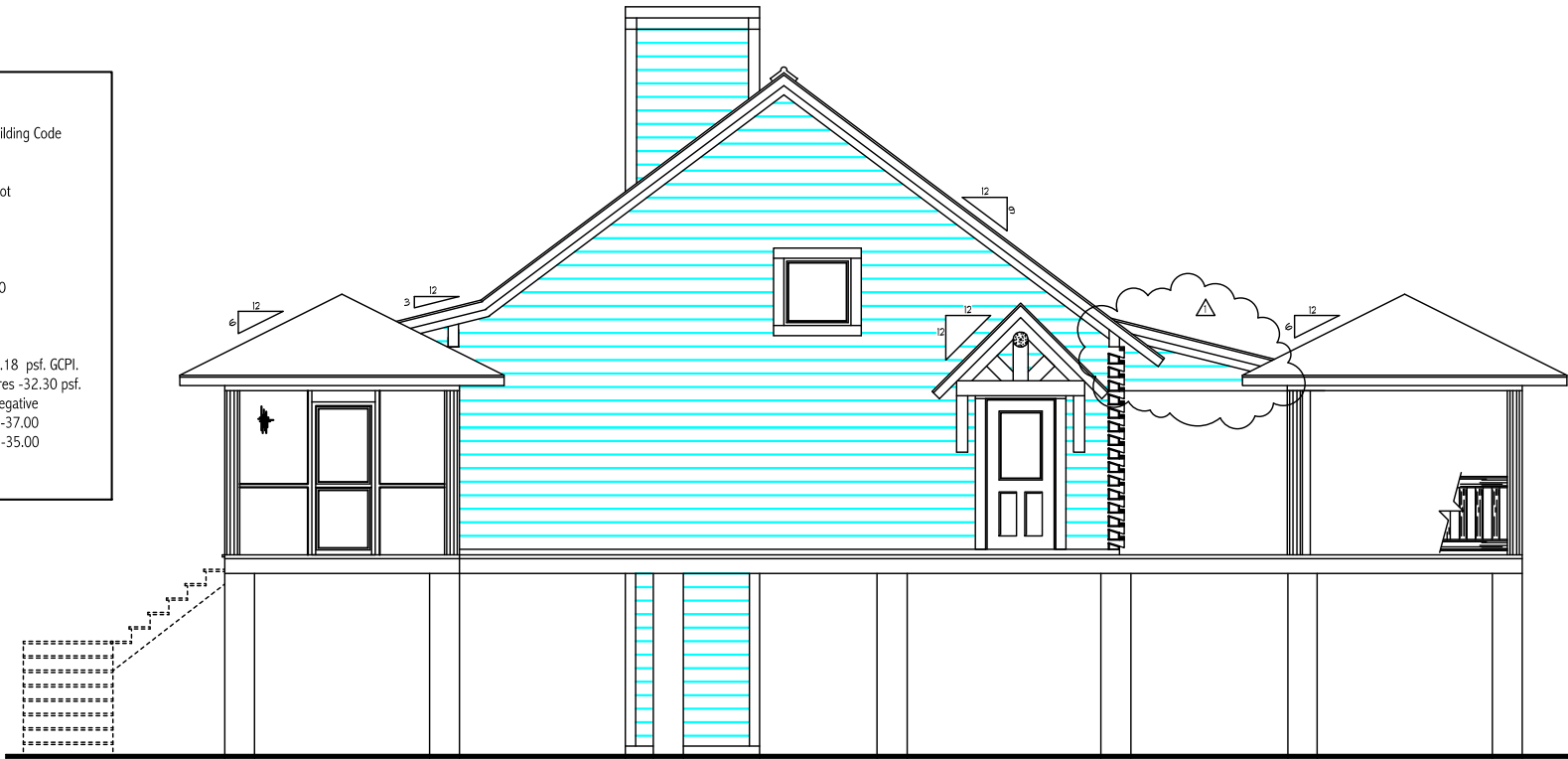
scale 1/4"= 1'-0"

WIND DESIGN PRESSURES

These plans are designed per 2020 Florida Building Code 7th Edition.

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



Tomas B
Whitman
2023.07.28
07:35:16 -04'00'

front & right elevations & notes

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 KSKjk

| revisions | |
|------------------------------|--|
| PD #4 - OCTOBER 11, 2020 | |
| PD #5 - OCTOBER 15, 2020 | |
| PD #6 - JANUARY 1, 2021 | |
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sheet
1
of 11

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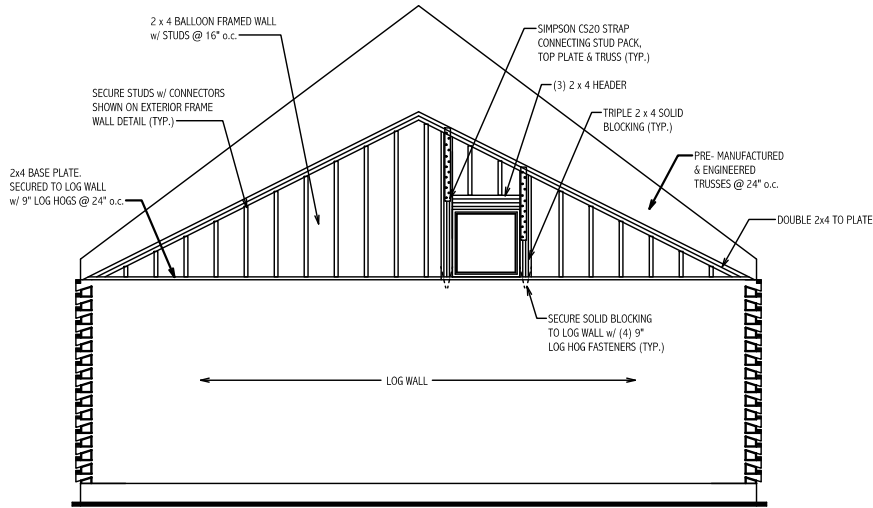
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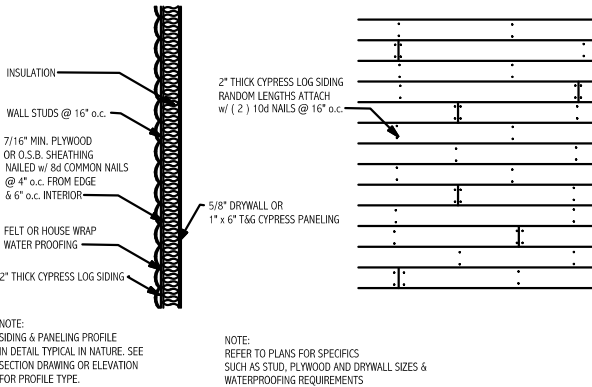
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P.E. Number: 63178

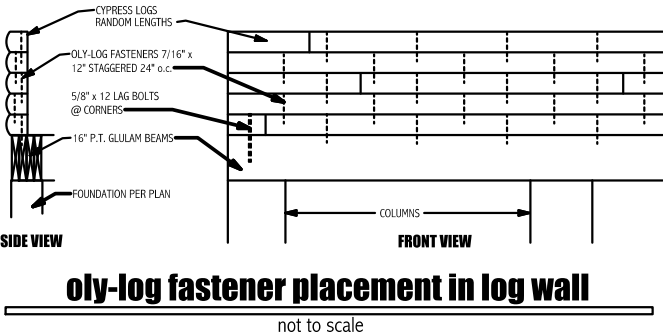
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wind load.



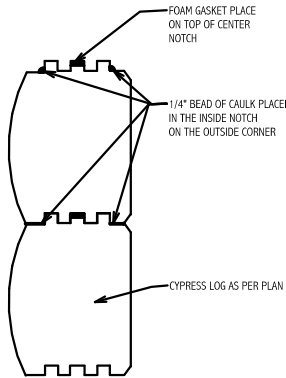
gable end reinforcement scale 3/16"= 1'-0"



frame wall with 2 inch thick log siding detail not to scale



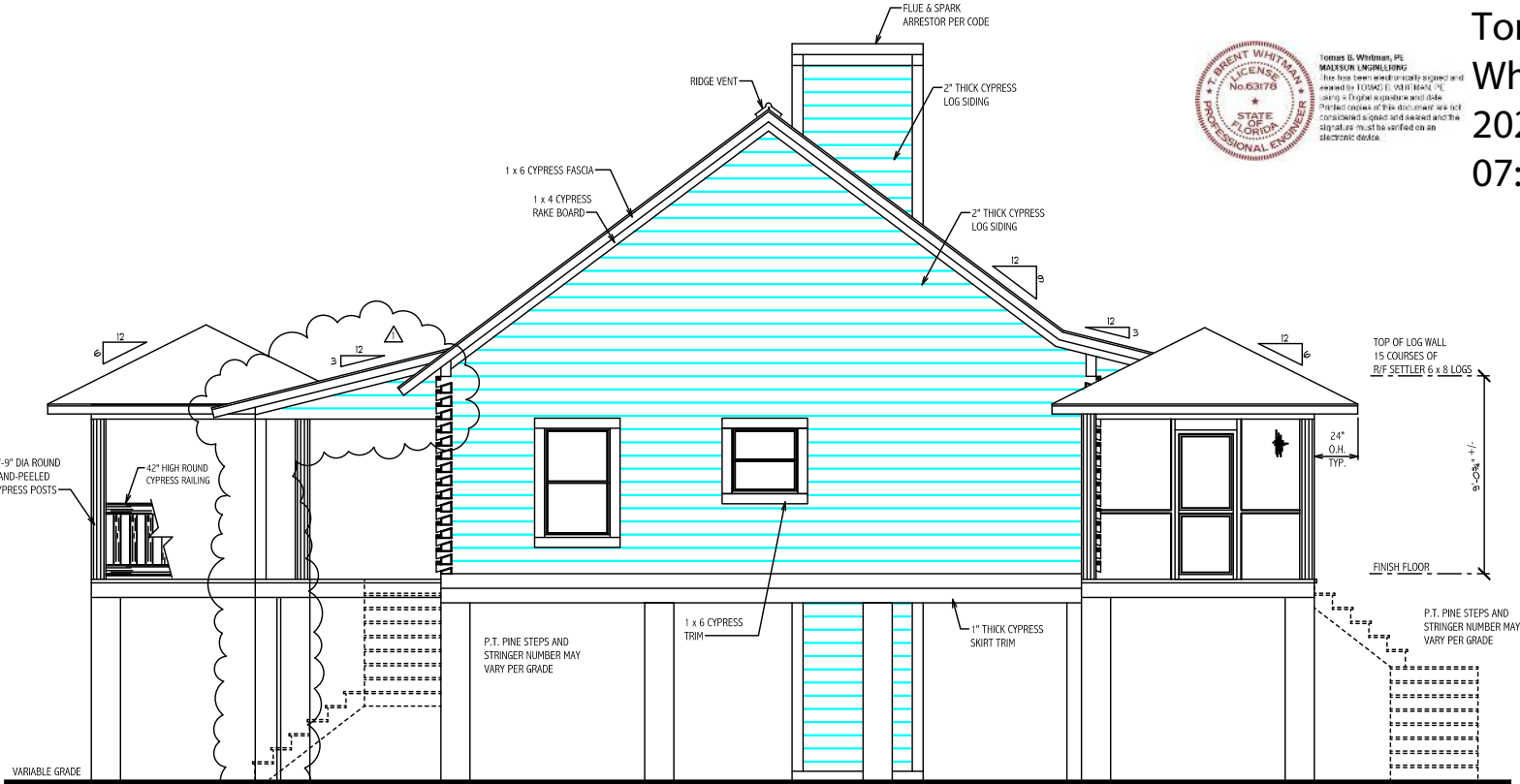
only-log fastener placement in log wall not to scale



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
2023.07.28
07:35:50 -04'00'



Tomas B. Whitman, P.E.
MAJORSON ENGINEERING
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rear & left elevations & details

revisions

| |
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Huckleberry Cabin for:

DON FROWICK

7722 STILL LAKES DRIVE, ODESSA, FL 33556

P.O. Box 191

Bronson, Florida 32621

Ph. (352)486-2470 (800) 553-1564

scale: AS SHOWN

date: AUGUST 25, 2020

drawn by: SMITH

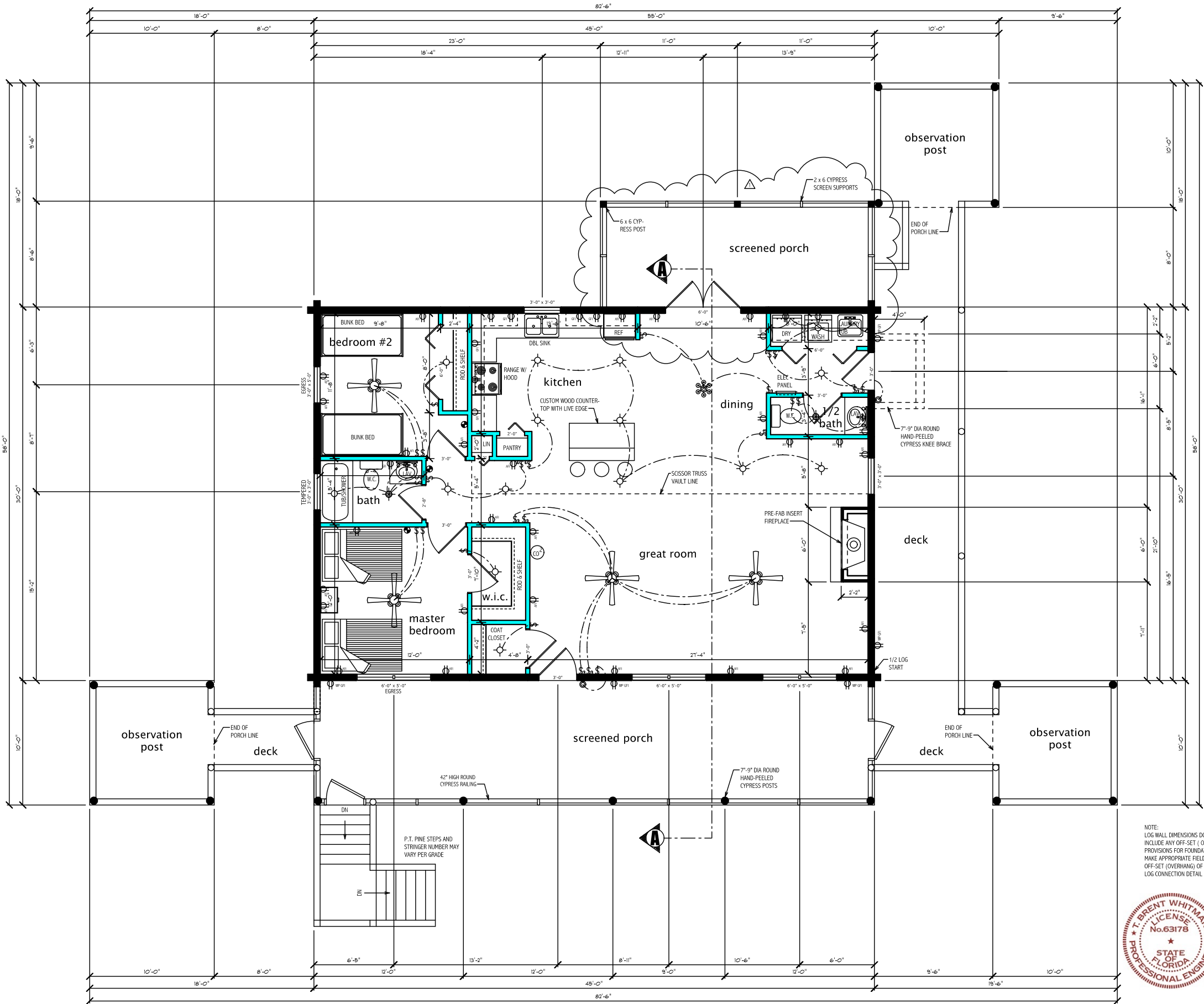
model: River Bend

job no: 20823 KSJK

sheet

2

of 11



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

| Square Footage | |
|----------------|------|
| FIRST FLOOR | 1350 |
| PORCHES/DECKS | 1329 |
| TOTAL | 2679 |



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floor plan, elec legend, & sq. footage

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drawn by: SMITH
model: River Bend
job no: 20823 KSKjk

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drawn by: SMITH
model: River Bend
job no: 20823 KSKjk

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3
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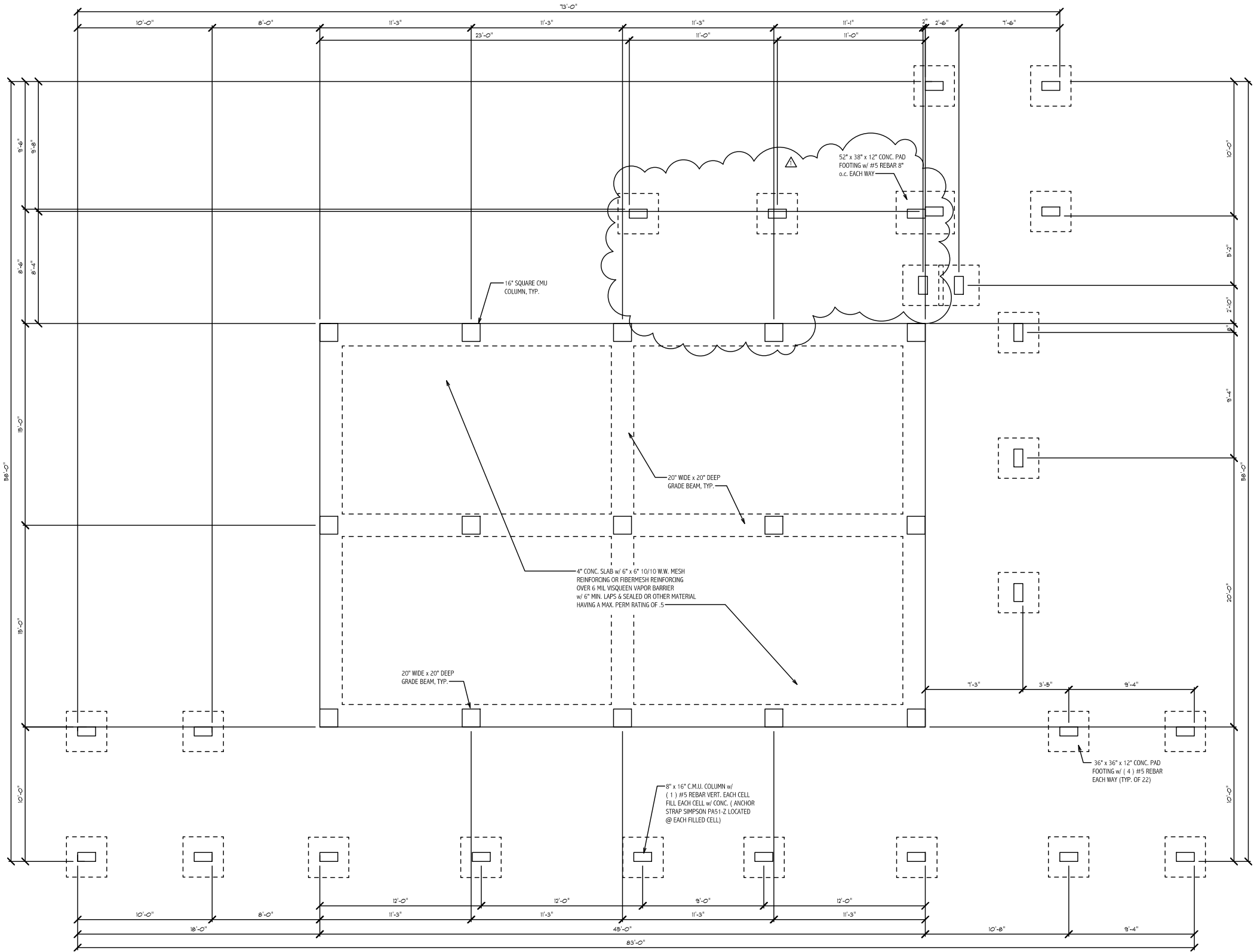
revisions
PD #4 - OCTOBER 11, 2020
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PD #6 - JANUARY 1, 2021
FINAL - MARCH 13, 2021
REVISION #1 - APRIL 24, 2023

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

floor plan

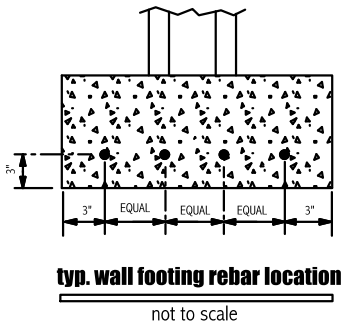
scale 1/4"= 1'-0"

Tomas B Whitman
2023.07.28
07:36:13 -04'00'



foundation plan

scale 1/4" = 1'-0"



NOTE:
Written dimensions take precedence over scale.

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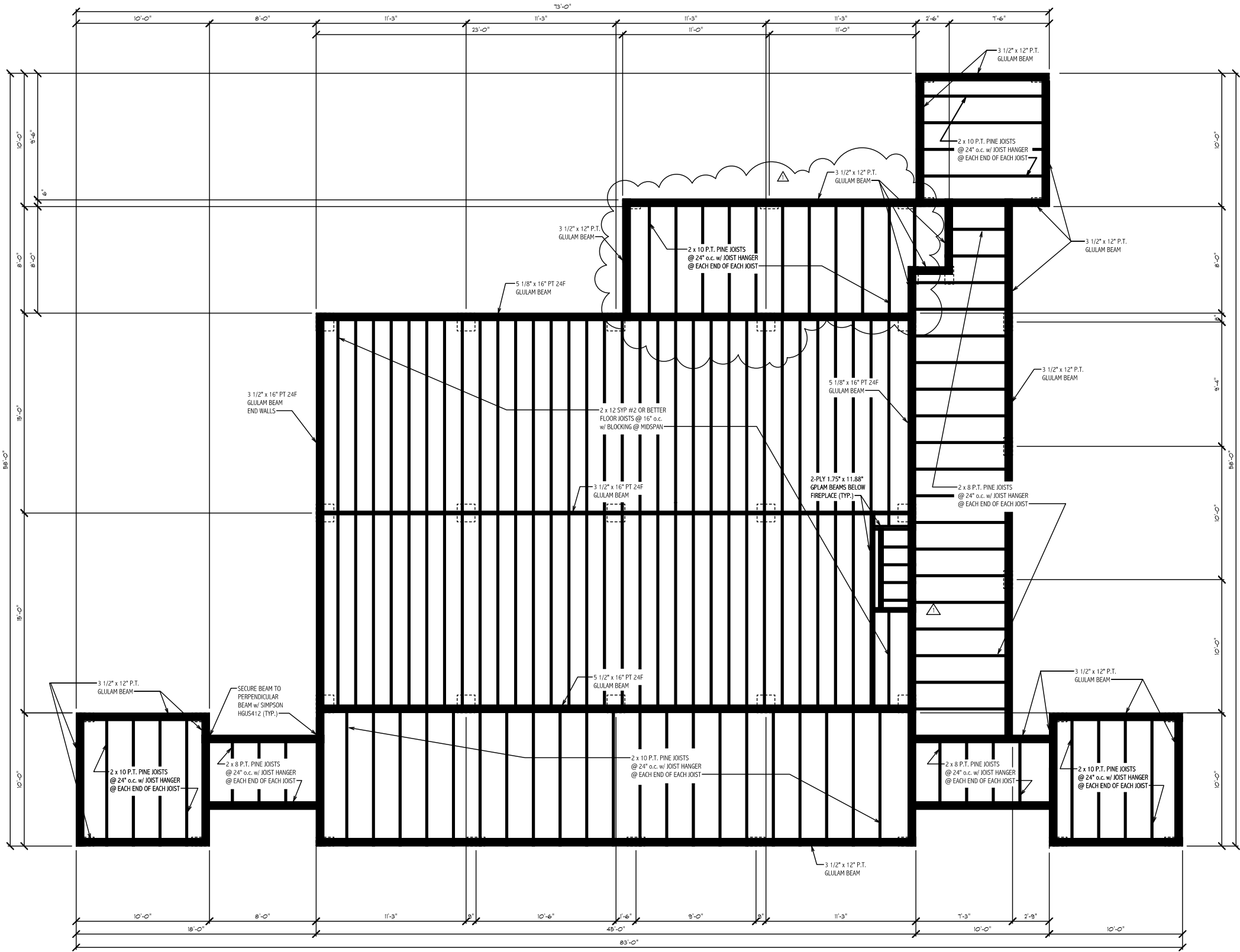
| foundation plan & details | |
|------------------------------|---------|
| revisions | sheet |
| PD #4 - OCTOBER 11, 2020 | 4 of 11 |
| PD #5 - OCTOBER 15, 2020 | |
| PD #6 - JANUARY 1, 2021 | |
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7722 STILL LAKES DRIVE, ODESSA, FL 33556

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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 framing plan

scale 1/4"= 1'-0"

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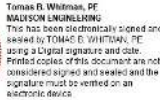
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of 11

floor framing plan



PRE-ENGINEERED MANUFACTURED TRUSS
(MUST BE ENDED TO HOLD THE
ADDITIONAL WEIGHT. TRUSSES MAY NEED TO
BE DOUBLED WHERE FAUX BEAM ARE INSTALLED)

BOTTOM CHORDS

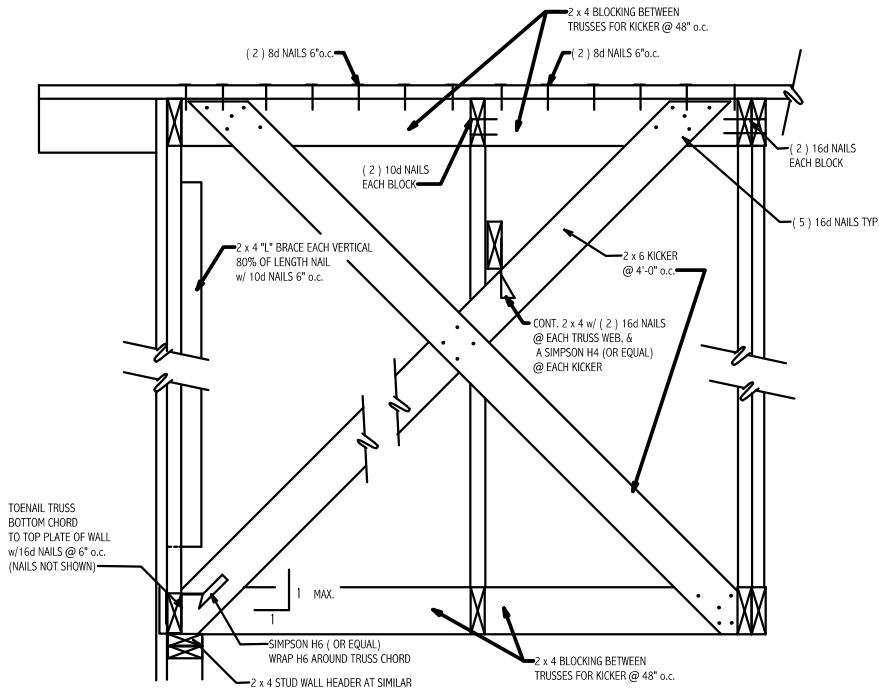
1 x 6 T&G CYPRESS DECKING

3/4" ROUND CYPRESS FAUX BEAM (7'-9" DIA. MAX.)

SECURE FAUX BEAM
w/ (2) LOG-HOG FASTENERS
LENGTH DETERMINED BY BEAM SIZE
MUST HAVE 3" THREADED
PENETRATION INTO SUPPORT SPACER
SECURE @ 32" o.c.

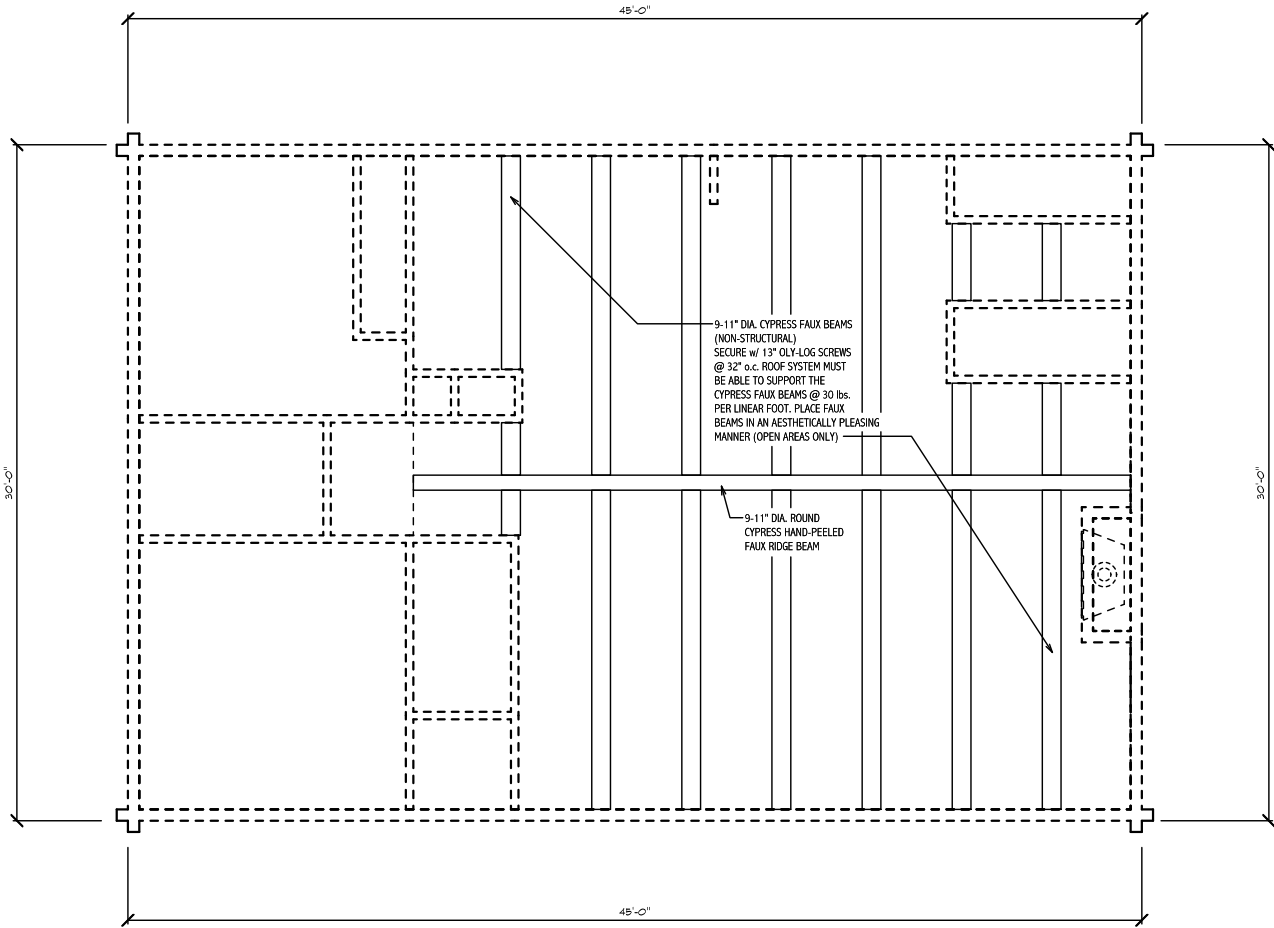
NOTE:
FAUX BEAMS ADD SIGNIFICANT WEIGHT TO THE ROOF MEMBER
THE ROOF SYSTEM MUST BE DESIGNED, ENGINEERED, AND BUILT
TO HOLD THIS ADDITION WEIGHT.

not to scale



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

not to scale



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not to scale

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P.E. Number: 63178

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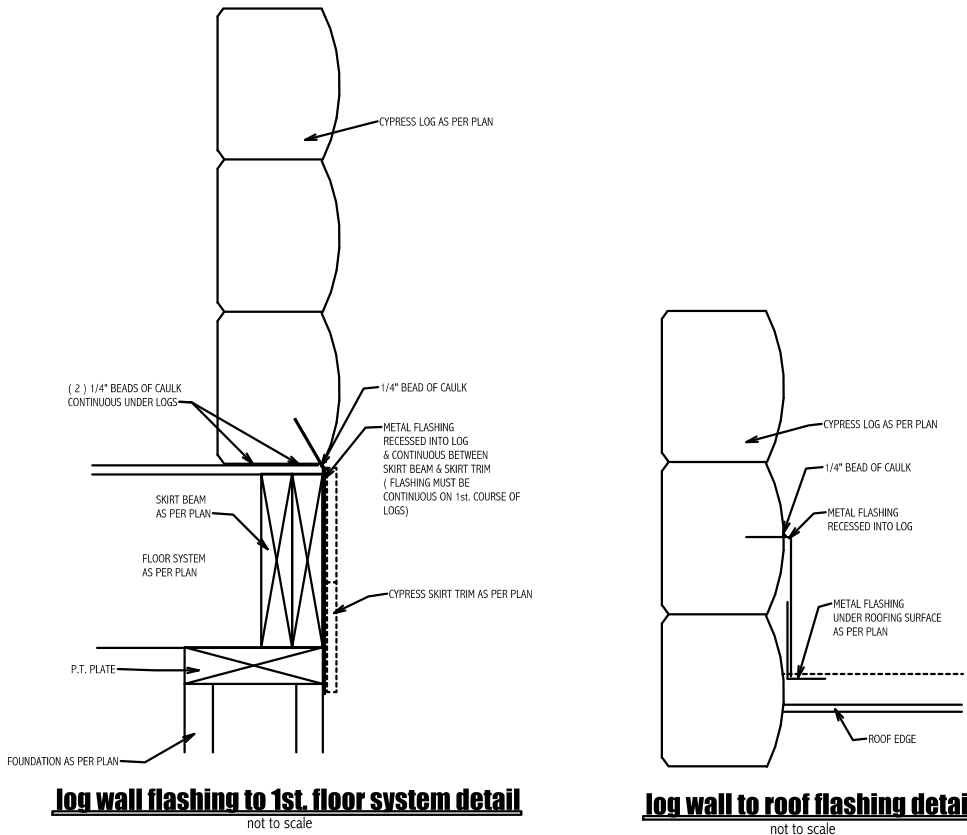
DON FROWICK

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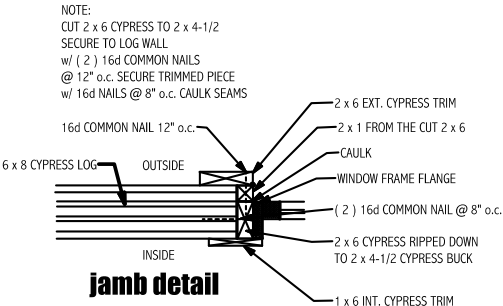
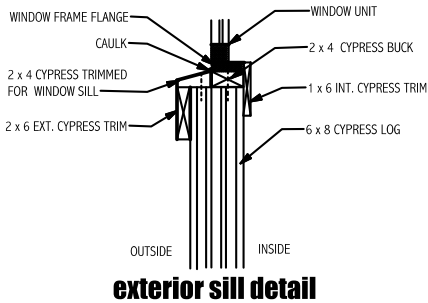
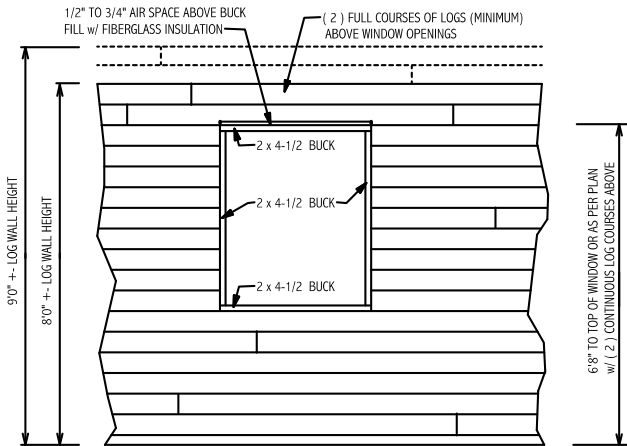
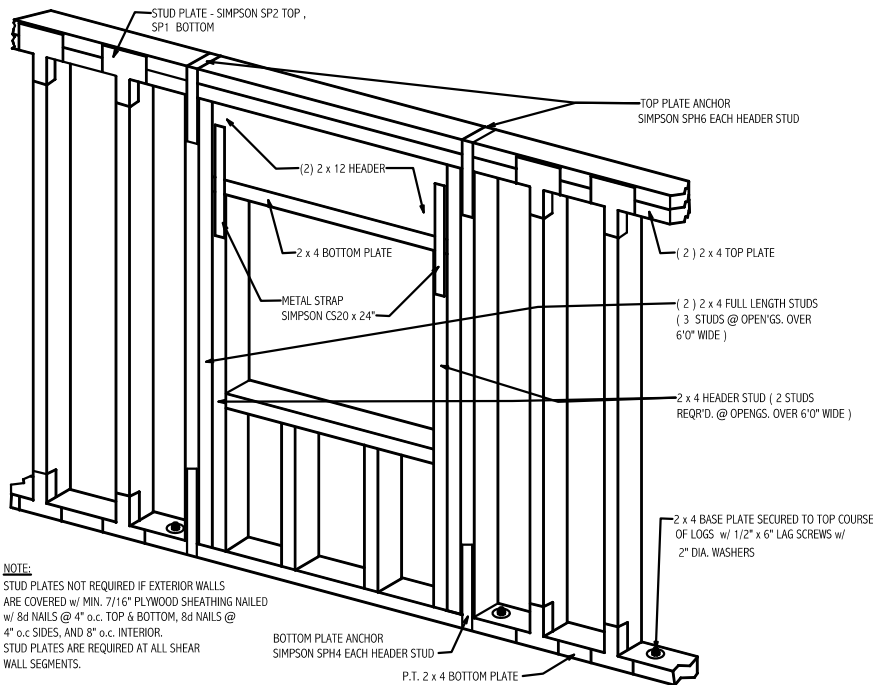
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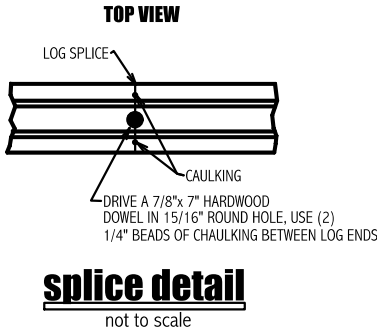
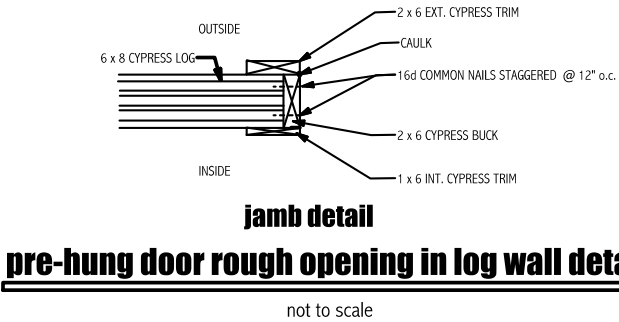
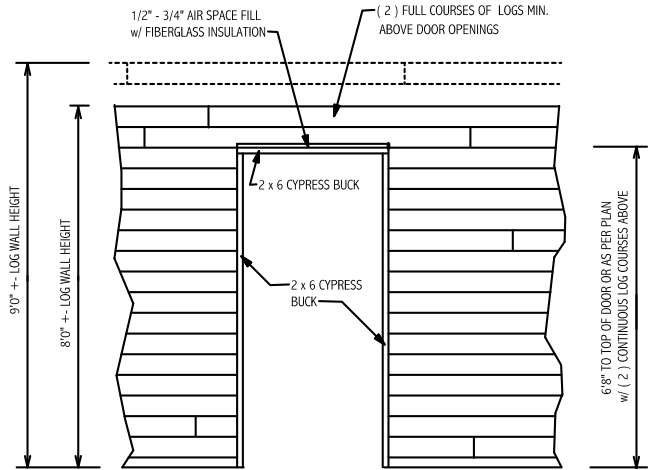
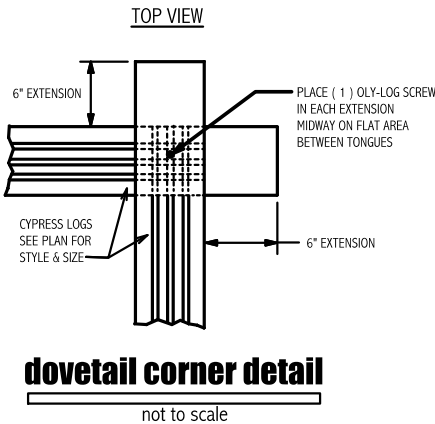
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job no: 20823 KSjk



log flashing details



window rough opening detail



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details

sheet
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Huckleberry Cabin for:
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7722 STILL LAKES DRIVE, ODESSA, FL 33556

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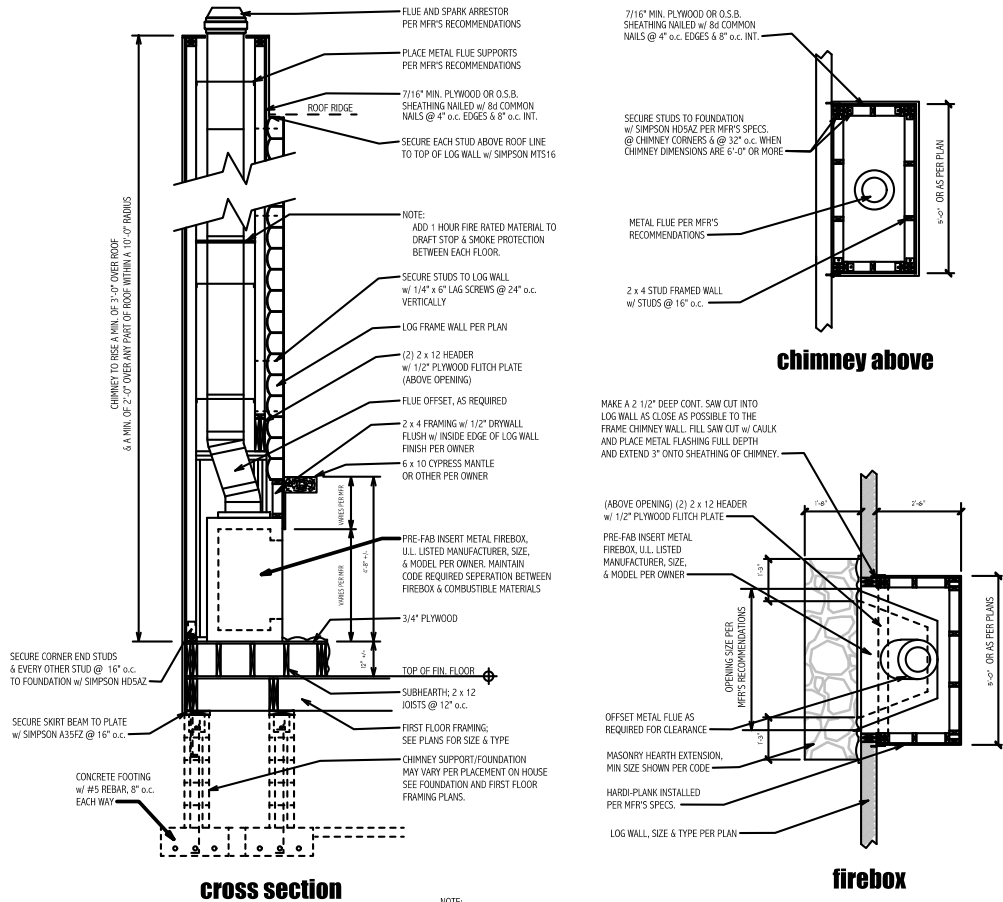
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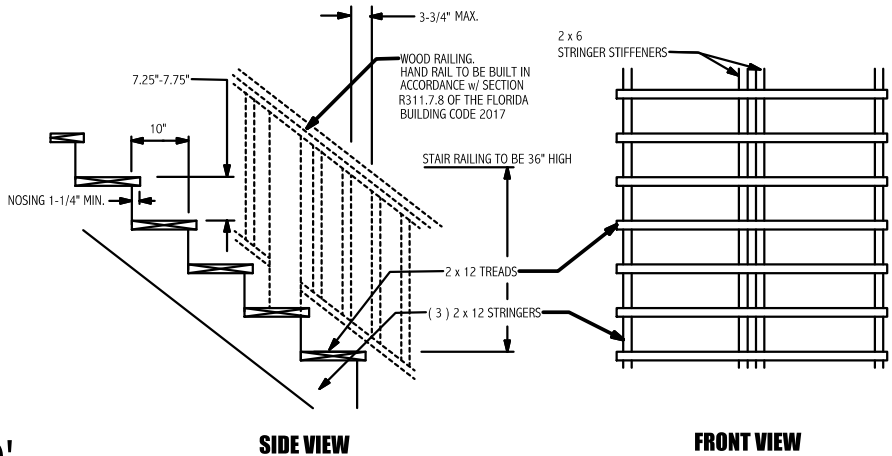
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| opening schedule | | | |
|---|---------------|-------|------------------------|
| PRODUCT CODE | SIZE | COUNT | LIBRARY NAME |
| 36x80 | 3'-0" x 6'-8" | 2 | Door, Exterior |
| 2868 | 2'-8" x 6'-8" | 1 | Door, Interior |
| 3068 | 3'-0" x 6'-8" | 5 | 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 | | | |



pre-fab insert fireplace detail

not to scale



typical stair detail

not to scale



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NOTE:
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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.

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| | |
|--|--|
| T. Brent Whitman, P.E. P.E. Number: 63178 | |
| These plans will comply W/ the 2020 FBC, 7th Ed., for a 130 mph (3 sec gust) wind load. | |

opening schedule & details

sheet 9 of 11

revisions
PD #4 - OCTOBER 11, 2020
PD #5 - OCTOBER 15, 2020
PD #6 - JANUARY 1, 2021
FINAL - MARCH 13, 2023
REVISION #1 - APRIL 24, 2023

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

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 GRADIENT 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 SEPARATING 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 TAG CEILING & ACCIDENT OR EQUIVARIANT 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.

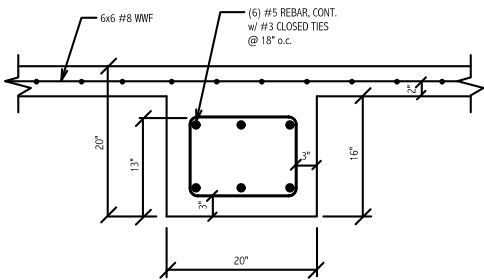
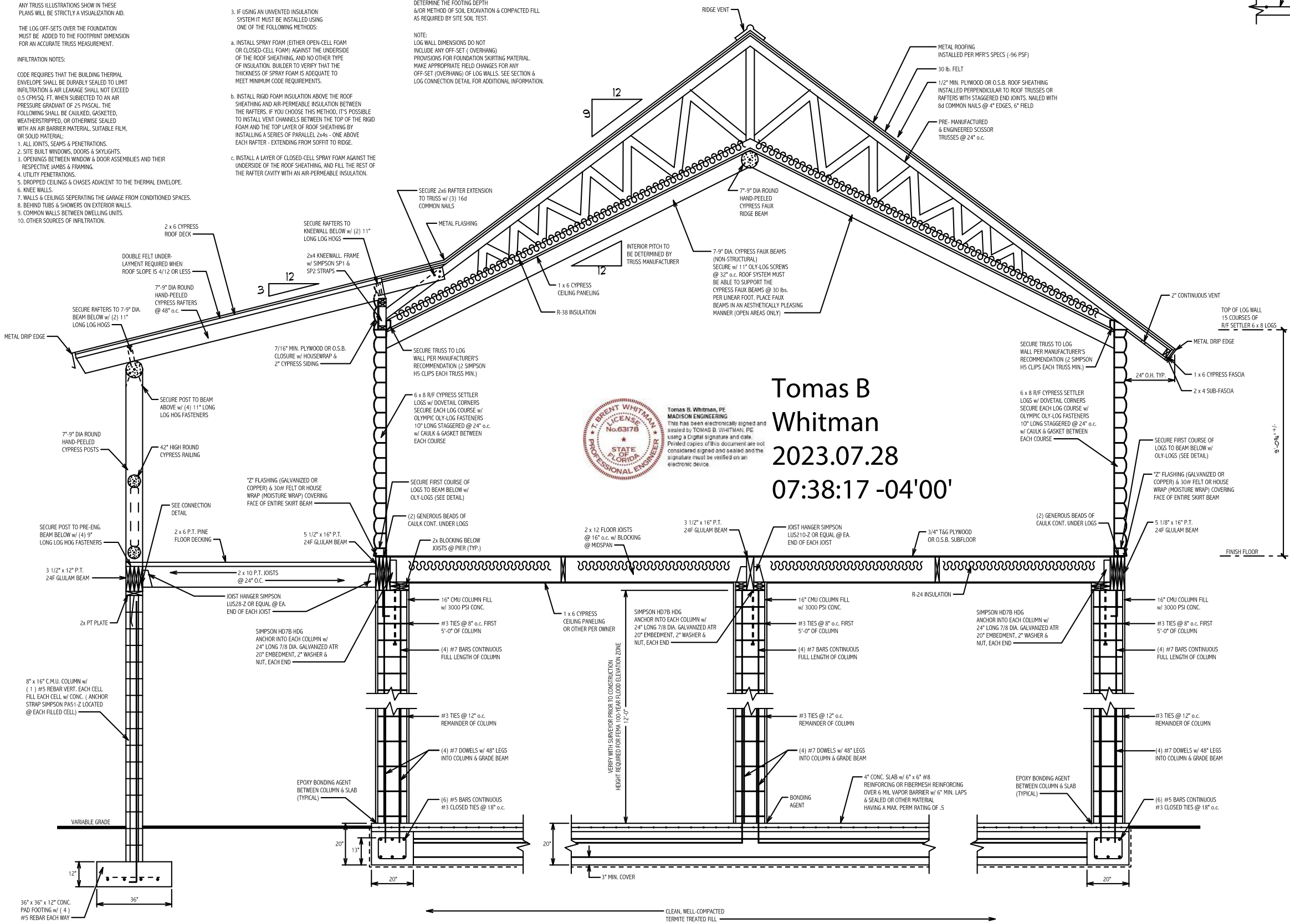
NOTES:
BUILDER TO CONFIRM FOUNDATION HEIGHT COMPLIES WITH FLOOD ZONE LOCATION REQUIREMENTS.

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

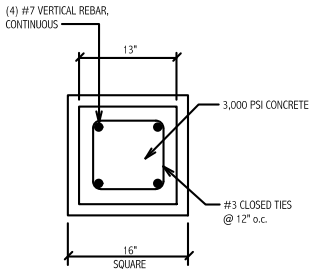
SITE PREPARATION & METHOD OF SOIL EXCAVATION, COMPACTED FILL, GRADE, & TERRACING BY OWNER

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.



GRADE BEAM SECTION B-B
SCALE: 3/4" = 1'-0"



COLUMN VERTICAL SECTION A-A
SCALE: 3/4" = 1'-0"

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.

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

These plans will comply
W/ the 2020 FBC, 7th Ed.,
for a 130 mph (3 sec gust)
wind load.

section A-A

sheet

10

of 11

revisions

PD #4 - OCTOBER 11, 2020
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scale: AS SHOWN
date: AUGUST 25, 2020
drawn by: SMITH
model: River Bend
job no: 20823 KSJK

section A-A

Scale 1/2"=1'-0"

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 LISTE:

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 dove-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 alternatives to hot-dip-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 quaternary, 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 OylLog and TimberLOK Fasteners: The OylLog and TimberLOK fasteners have a 5/16-inch (7.9 mm) hex-head, rolled threads and a ginitel 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 ginitel point. They have a proprietary corrosion-resistant coating.

3.1.3 LedgerLOK and LogHog Fasteners: The LedgerLOK and TrussLOK-2 fasteners have a 5/16-inch (7.9 mm) hex-head with integral washer, rolled threads and a ginitel 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-2 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 1, 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, CW, 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.

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

3.1.3 LedgerLOK and LogHog Fasteners: The LedgerLOK and TrussLOK-2 fasteners have a 5/16-inch (7.9 mm) hex-head with integral washer, rolled threads and a ginitel 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-2 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 1, 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, CW, where applicable. Reference head pull-through design values must be adjusted using the NDS adjustment factors applicable to withdrawal for wood screws.

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 quaternary, type D (ACQ-D), with a maximum retention of 0.40 ppi (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

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).

TABLE 1A-FASTENER SPECIFICATIONS: OLYLOG AND TIMBERLOK FASTENERS

| OLYLOG/ TIMBERLOK FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH ¹ (inches) | LENGTH OF THREAD ¹ (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD ² (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) Shear ³ (lbf) |
|--|--------------|--------------------------------------|--|----------------------------------|-------------------------------------|--|--|
| TLOR12 or LOG12 | F2.5 | 2 1/2 | 1 1/4 | 0.189 | 0.172 | 167,300 | 1,300 940 |
| TLOR14 or LOG14 | F4.0 | 4 | 2 | | | | |
| TLOR16 or LOG16 | F6.0 | 6 | 2 | | | | |
| TLOR18 or LOG18 | F8.0 | 8 | 2 | | | | |
| LOG19 | F9.0 | 9 | 2 | 0.189 | 0.172 | 190,600 | 1,445 800 |
| TLOR10 or LOG10 | F10.0 | 10 | 2 | | | | |
| LOG12 | F12.0 | 12 | 2 | | | | |
| LOG14 | F14.0 | 14 | 2 | | | | |
| LOG16 | 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.

⁴ Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

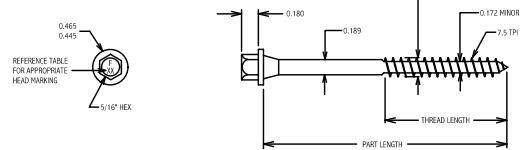


TABLE 1B-FASTENER SPECIFICATIONS: HEADLOK FASTENERS

| HEADLOK FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH ¹ (inches) | LENGTH OF THREAD ¹ (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | Bending Yield ² (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (psi) Shear ³ (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.

⁴ Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

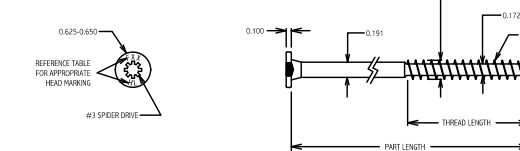


TABLE 2-REFERENCE WITHDRAWAL DESIGN VALUES (W)^{1,2,3}

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

| FASTENER | THREAD LENGTH, L ¹ (inches) | W (lb./lin.) FOR SPECIFIC GRAVITIES OF: | | | | | |
|------------------------|--|---|---------------------|--------------------|--------------------|--------------------|--------------------|
| | | 0.57 | 0.55 | 0.5 | 0.46 | 0.43 | 0.42 |
| OylLog/ 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 ⁽⁴⁾ | NA ⁽⁵⁾ | 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 lengths include the tapered tip.

⁴ See Table 1A through 1F for thread lengths corresponding to specific fastener model numbers.

⁵ The ThrulOK must be used 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 |
| OylLog/ 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 ⁽⁴⁾ | 1.5 | 1140 ⁽⁶⁾ | 1060 ⁽⁶⁾ | 900 ⁽⁶⁾ | 780 ⁽⁶⁾ | 700 ⁽⁶⁾ | 680 ⁽⁶⁾ |

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_s, as given above.

³ The ThrulOK must be used 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.

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 Dove-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 1C-FASTENER SPECIFICATIONS: LEDGERLOK AND LOGHOG FASTENERS

| LEDGERLOK/ LOGHOG FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH ¹ (inches) | LENGTH OF THREAD ¹ (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD ² (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) Shear ³ (lbf) |
|--|--------------|--------------------------------------|--|----------------------------------|-------------------------------------|--|--|
| LL05S | F3.6 | 3 5/8 | 2 | 0.228 | 0.202 | 200,700 | 1,833 1,235 |
| LL05S | F5.0 | 5 | 3 | | | | |
| LHOG009 | F9.0 | 9 | 3 | | | | |
| LHOG011 | F11.0 | 11 | 3 | | | | |
| LHOG013 | F13.0 | 13 | 3 | 0.228 | 0.202 | 183,200 | 1,335 890 |
| 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.

⁴ Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

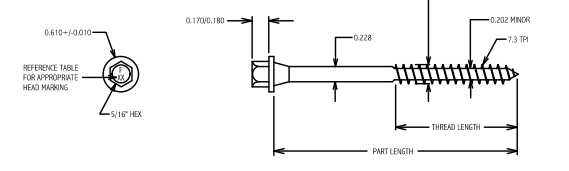


TABLE 1D-FASTENER SPECIFICATIONS: TRUSSLOK FASTENERS

| TRUSSLOK FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH ¹ (inches) | LENGTH OF THREAD ¹ (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD ² (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) Shear ³ (lbf) |
|-------------------------------|--------------|--------------------------------------|--|----------------------------------|-------------------------------------|--|--|
| EW538 | F3.3 | 3 3/8 | 1 1/2 | 0.228 | 0.215 | 218,400 | 1,833 1,235 |
| EW500S | F5.0 | 5 | | | | | |
| EW5670 | 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.

⁴ Allowable shear strength values apply only to shearing in the unthreaded shank portion of the fastener.

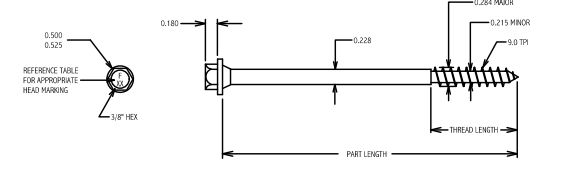


TABLE 1E-FASTENER SPECIFICATIONS: TRUSSLOK-Z FASTENERS

| TRUSSLOK-Z FASTENER DESIGNATION | HEAD MARKING | OVERALL LENGTH ¹ (inches) | LENGTH OF THREAD ¹ (inches) | UNTHREADED SHANK DIAMETER (inch) | MINOR THREAD (ROOT) DIAMETER (inch) | BENDING YIELD ² (F yb, psi) | ALLOWABLE FASTENER STRENGTH Tensile (lbf) Shear ³ (lbf) |
|---------------------------------|--------------|--------------------------------------|--|----------------------------------|-------------------------------------|--|--|
| TSZ278 | F2.8 | 2 7/8 | 1 1/4 | 0.228 | 0.202 | 218,400 | 1,833 1,235 |
| TSZ2412 | F4.5 | 4 1/2 | | | | | |
| TSZ206 | 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