PROJECT MERCY

16 FT X 20 FT HOUSE

PROJECT MERCY

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WWW.PROJECTMERCY.NET

THIS SET OF DRAWINGS IS INTENDED AS A REFERENCE GUIDE FOR SPONSOR GROUPS.

IT PROVIDES CONSTRUCTION DETAILS TYPICAL OF RESIDENTIAL ARCHITECTURAL DRAWINGS, BUT ALSO CONTAINS SOME "HOW-TO" NOTES FOR THOSE GROUPS WHO MIGHT APPRECIATE THE ADDITIONAL DETAIL.

SPECIFIC CONSTRUCTION TECHNIQUES ARE AT THE DISCRETION OF THE SPONSOR GROUP.

A13 - A15 ARE OPTIONAL INSTALLATIONS - TIME PERMITTING

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A12	GABLES
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A15	LOFT HANDRAIL



DRAWN: J. ZAWIS

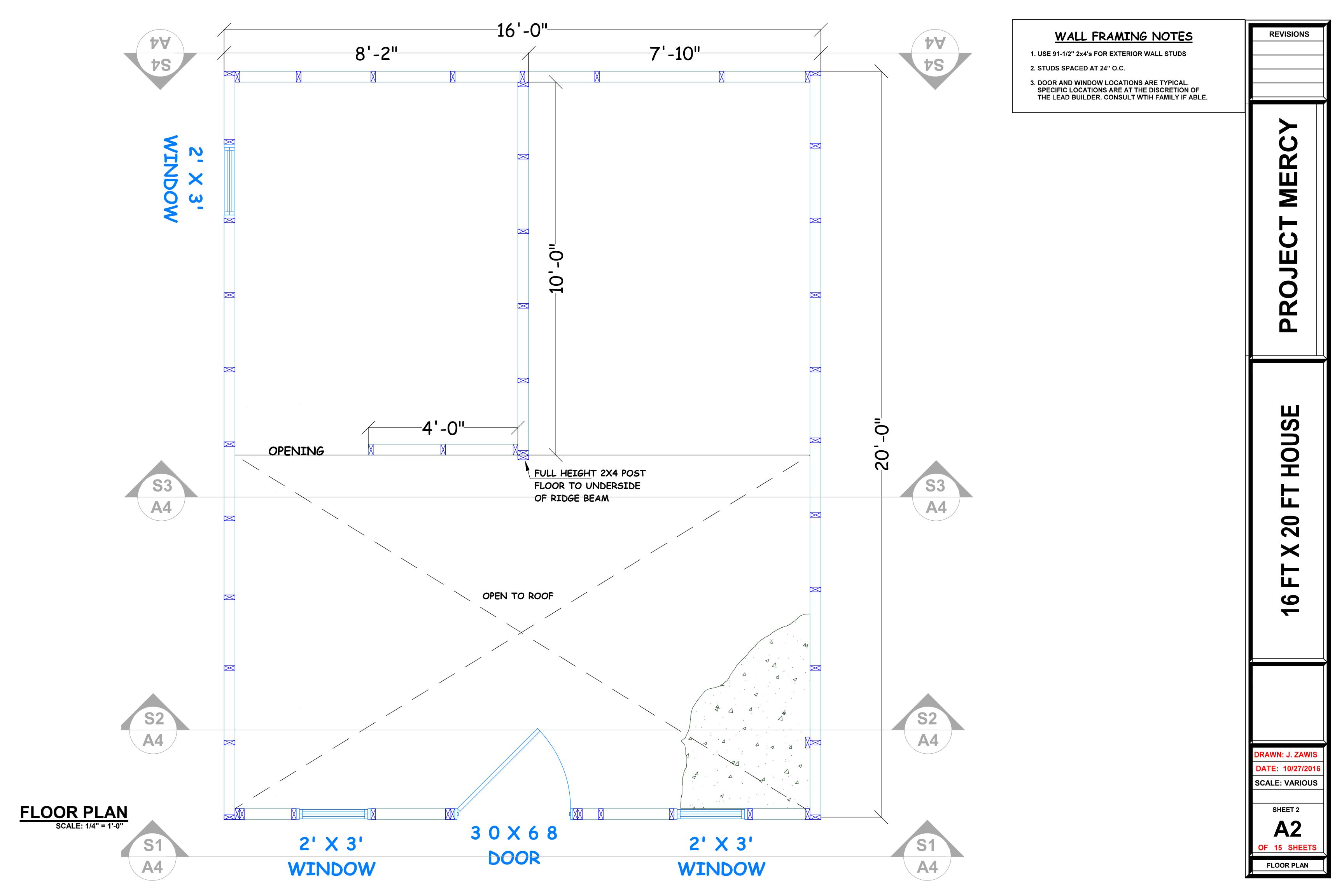
DATE: 10/27/2016

SCALE: VARIOUS

SHEET 1

A115 SHEETS

TITLE SHEET



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DATE: 10/27/2016 SCALE: 1/4" = 1'-0'

SCALE: 1/4" = 1'-0

SHEET 3

OF 15 SHEE

ELEVATION NOTES

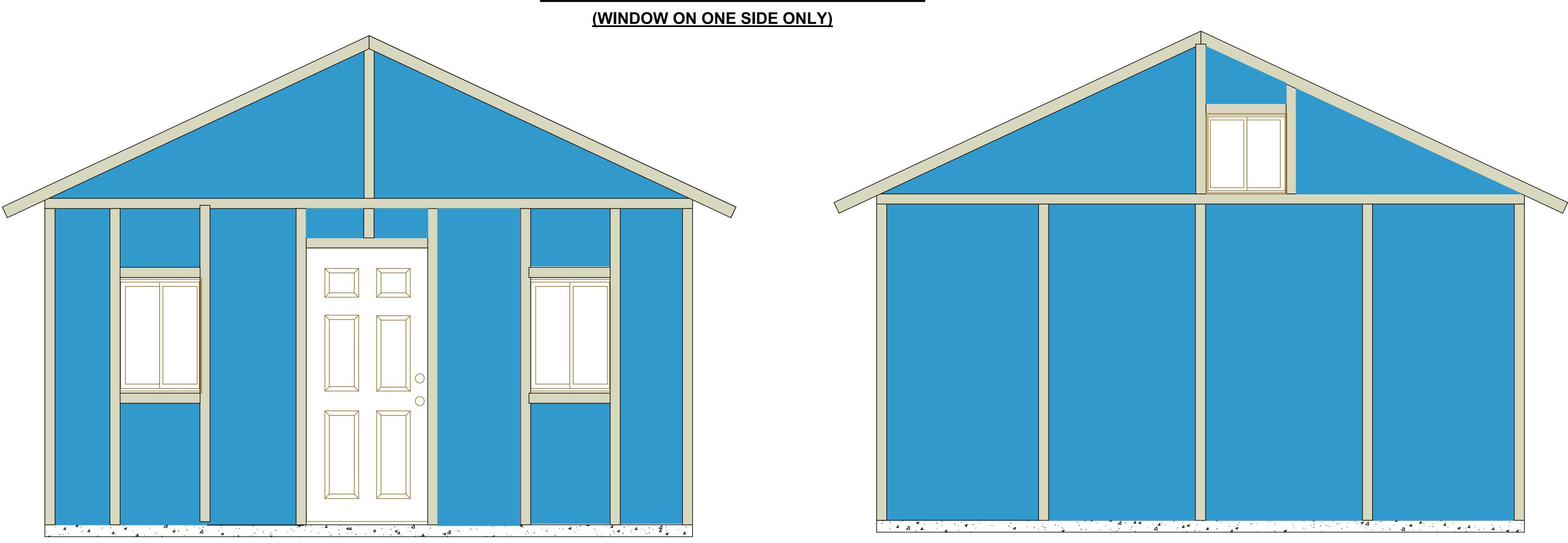
- 1. DOOR & WINDOW LOCATIONS AT DISCRETION OF LEAD BUILDER. (CONSULT WITH HOMEOWNER IF POSSIBLE)
- 2. 5/8" PLYWOOD SHEETING PAINTED ON EXTERIOR SIDE ONLY. (UNLESS SPONSOR GROUP PROVIDES INTERIOR PAINT)
- 3. TRIM OUT ALL DOORS, WINDOWS, AND PANEL SEAMS WITH PRIMED 1 X 3 TRIM BOARD THROUGHOUT
- 4. CAULK WINDOW EDGES BEFORE INSTALLING.
- IF TIME PERMITS:

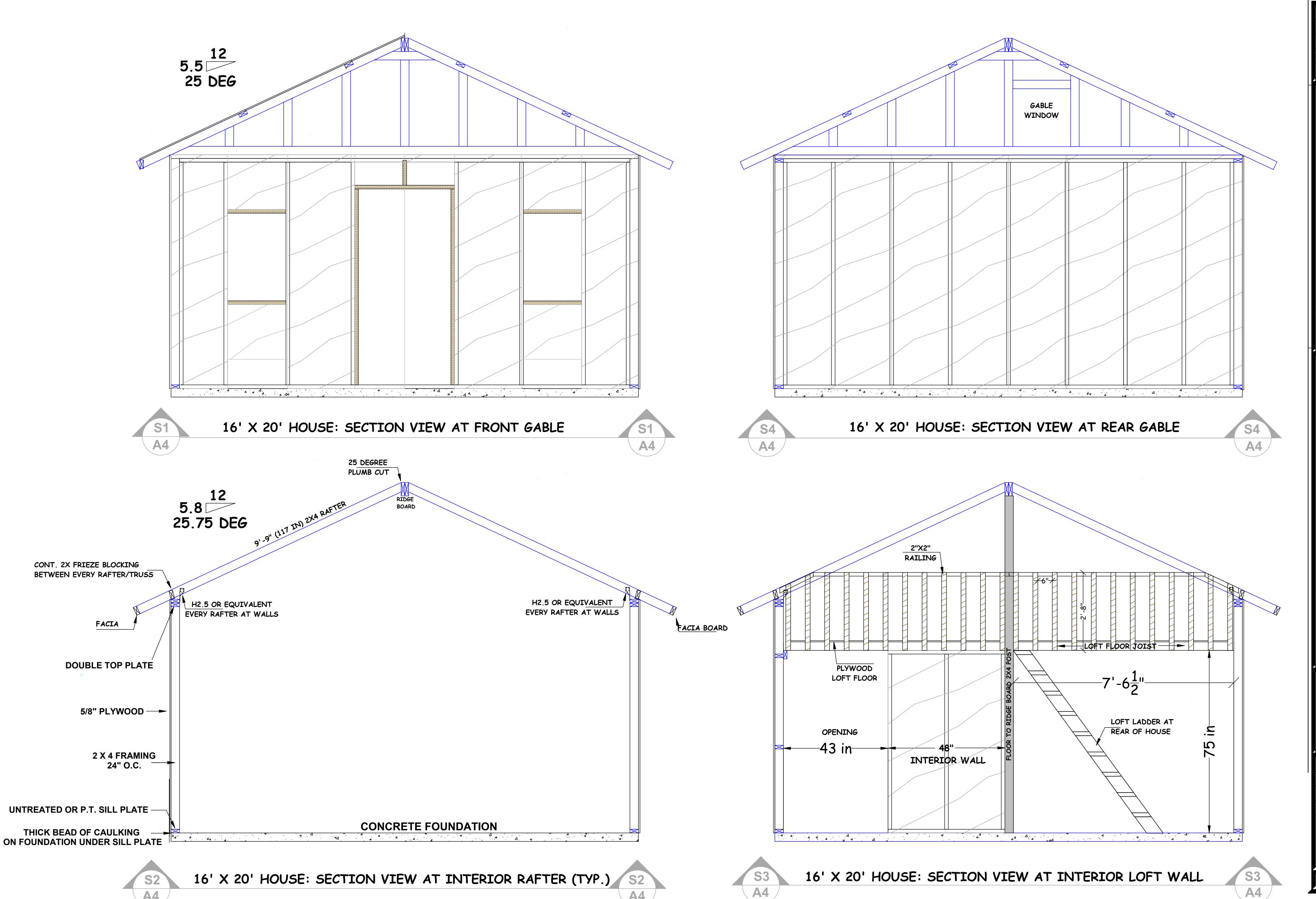
REAR ELEVATION

- 5. INSTALL DRIP EDGE ALONG ROOF EDGES
- 6. INSTALL 15# FELT STARTING AT BOTTOM OF ROOF. OVERLAP SEAMS A MINIMUM OF 3 INCHES.
- 7. INSTALL 3-TAB SHINGLE WITH A 4 ROOFING NAILS IN TAR LINE, AT ENDS AND ABOVE EACH TAB

WALL ELEVATION (BOTH SIDES)

FRONT ELEVATION





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X 20 FT HOUSE

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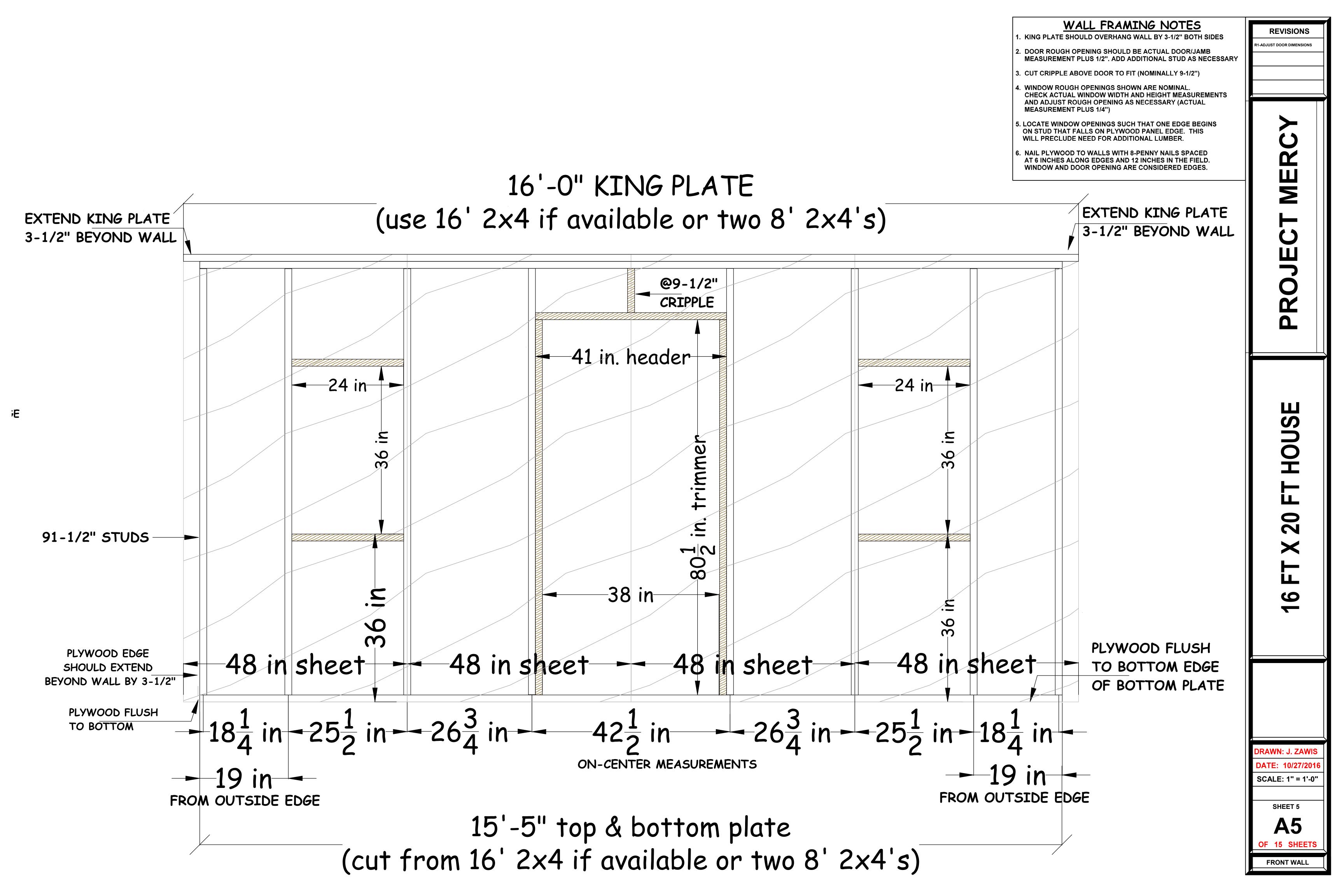
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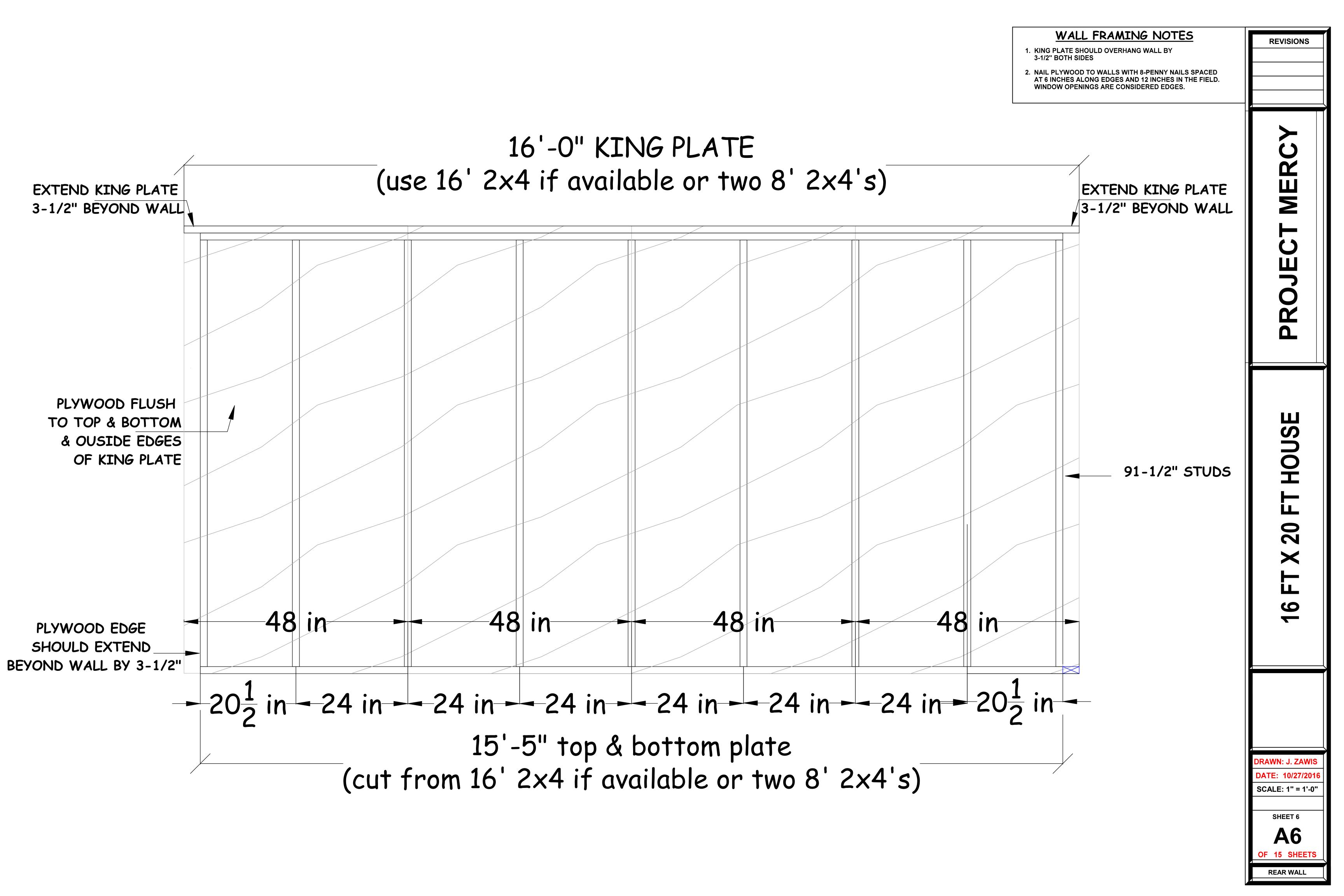
SCALE: VARIOUS

SHEET 4

OF 15 SHEETS

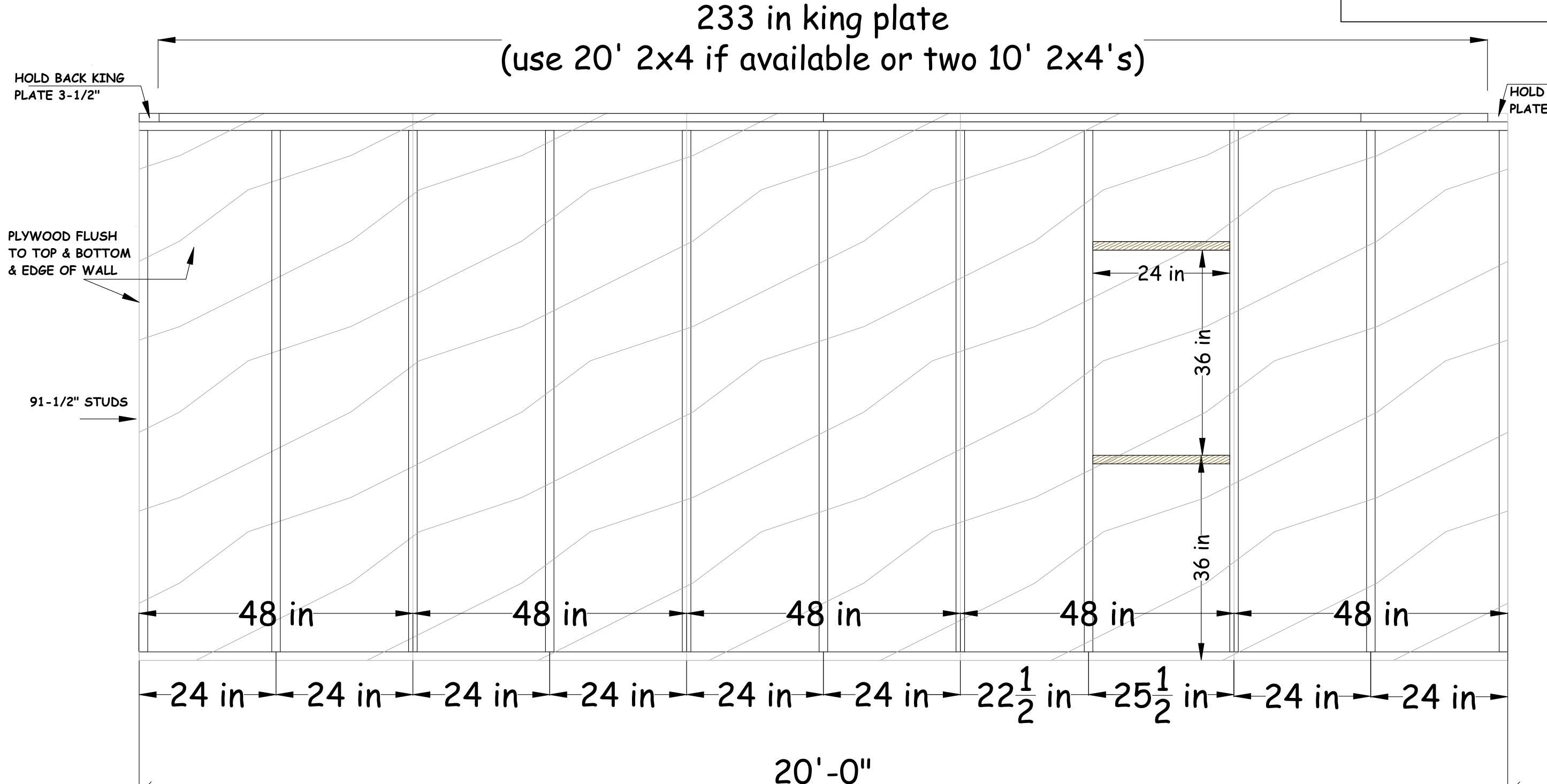
SECTIONS



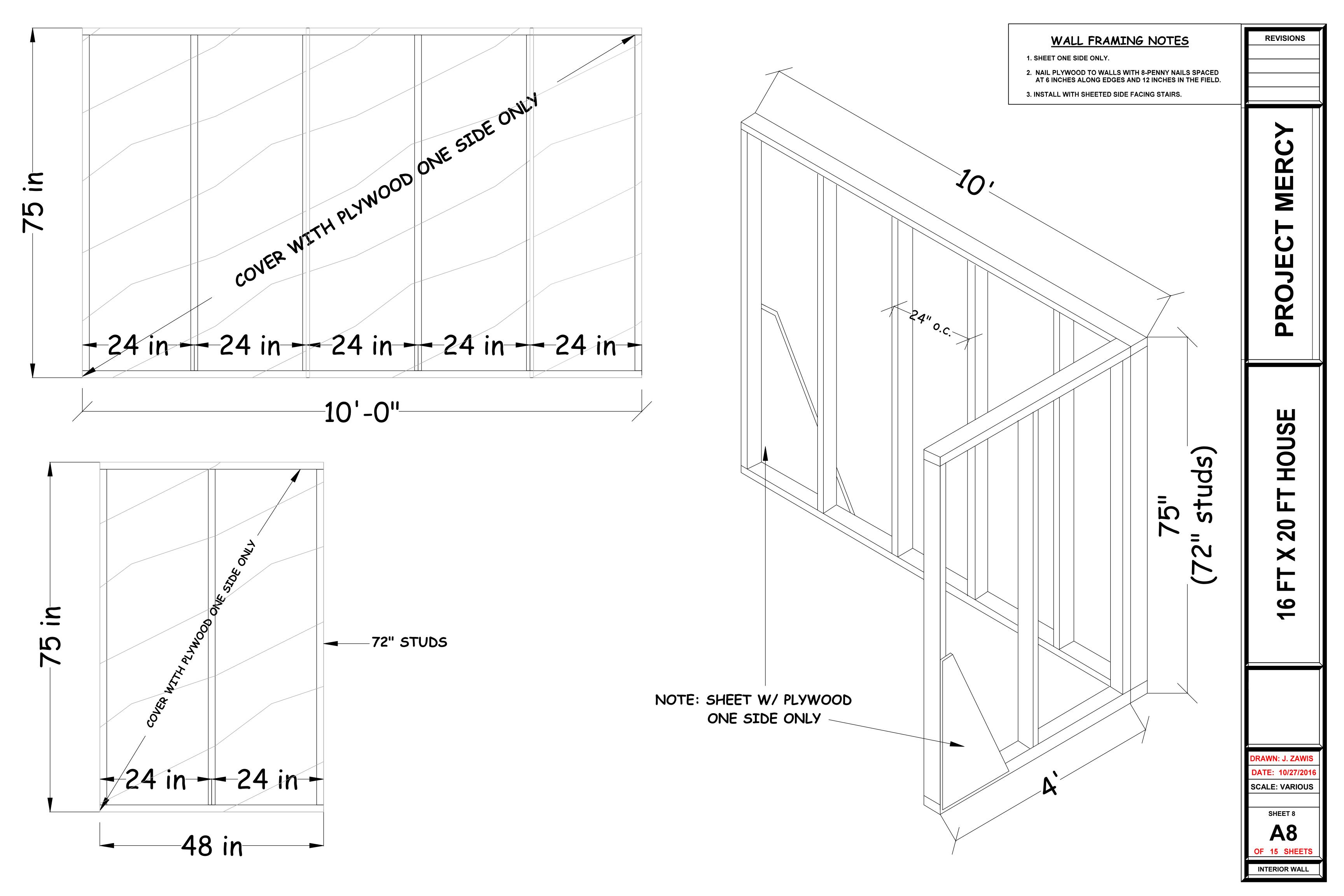


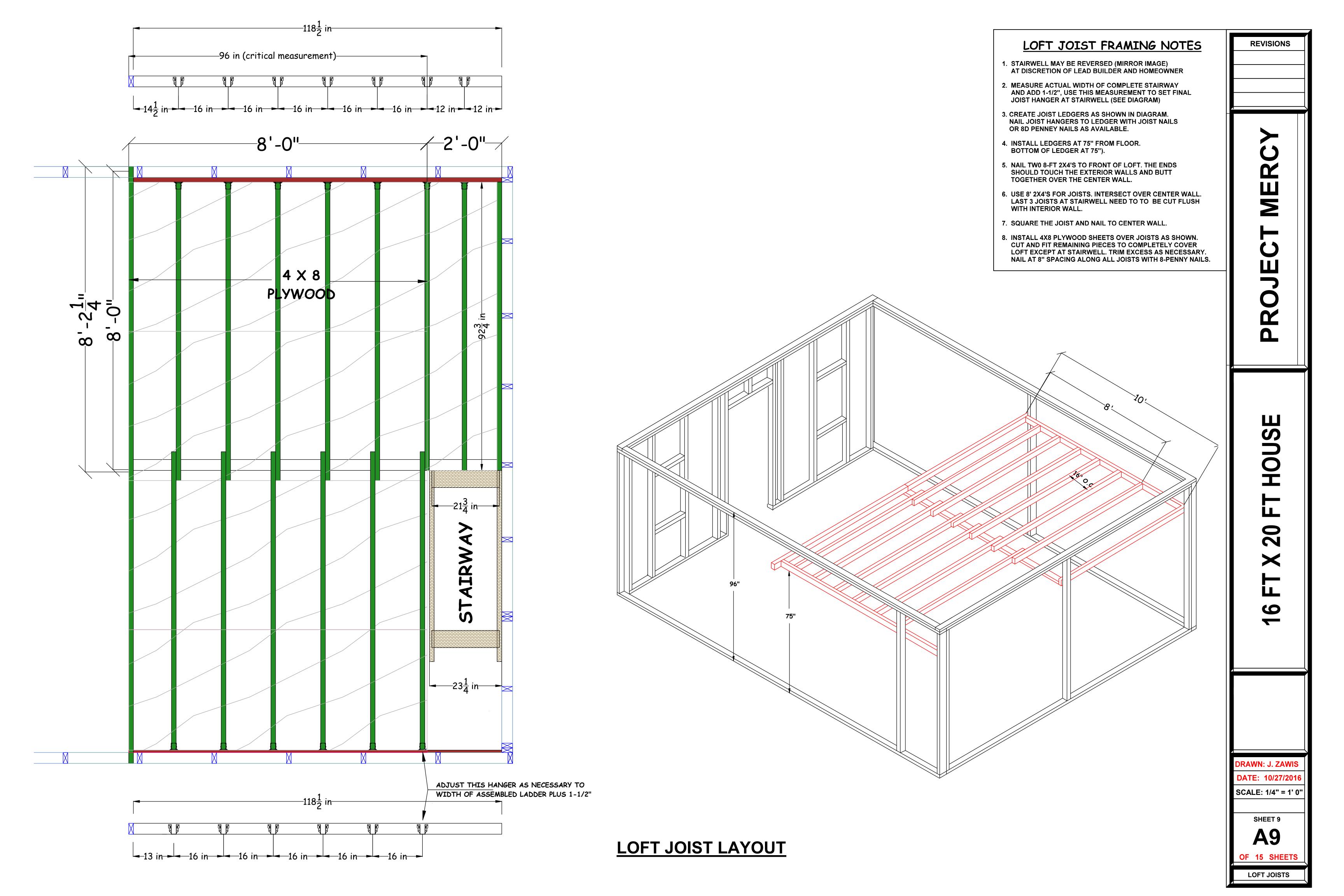


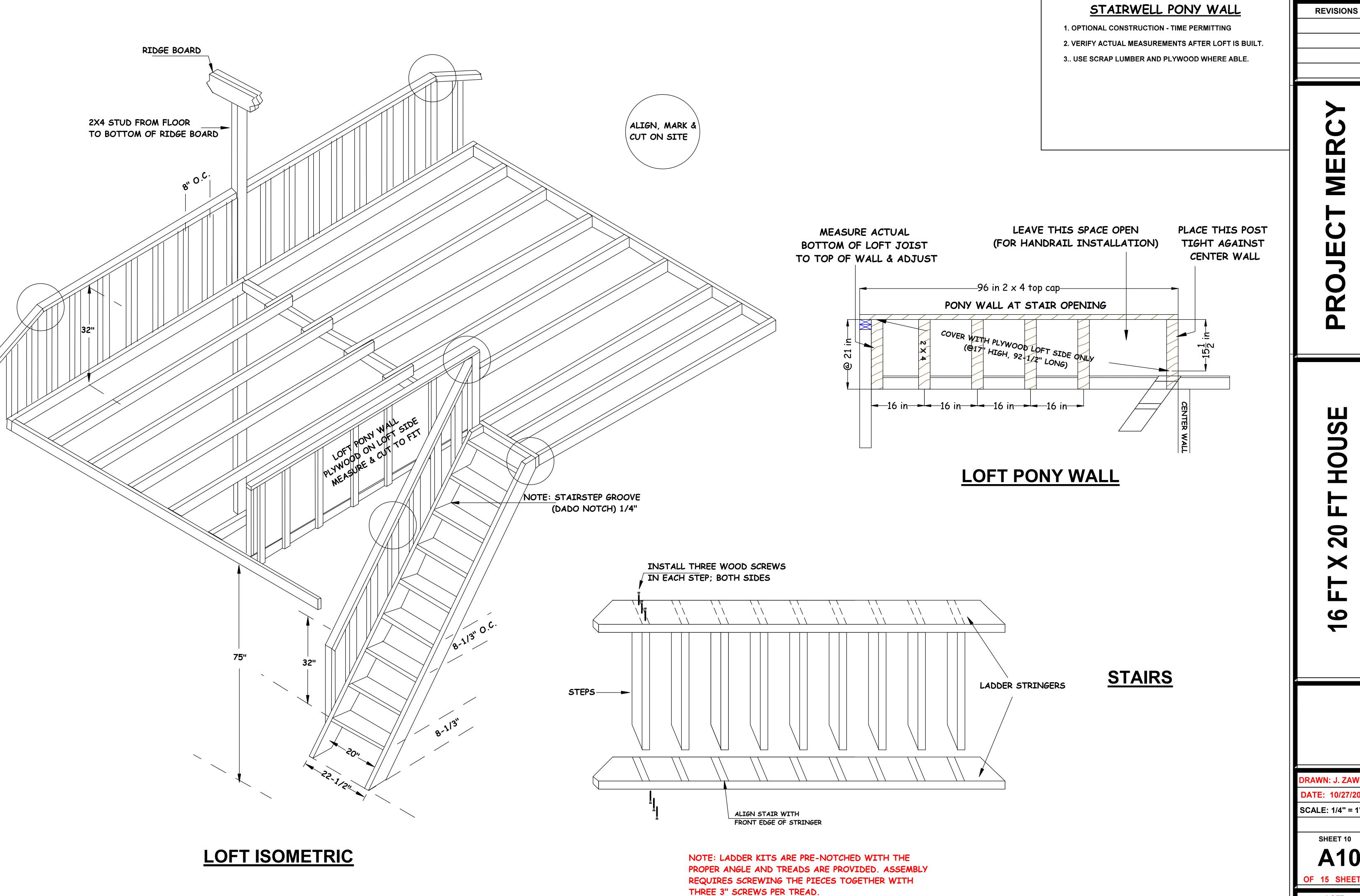
FOUNDATION WHEN STANDING WALLS.



(use 20' 2x4 if available or two 10' 2x4's)







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HOUSE 20 × 9

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A10 OF 15 SHEETS

16' X 20' HOUSE: RIDGE BOARD

RIDGE BOARD NOTES

- 1. TRIM 2X6 RIDGE BOARDS TO 22-FT
- 2. CROWN BOARDS, ALIGN ENDS, AND NAIL WITH TWO 16-P NAILS EVERY 12", ENSURING EDGES REMAIN FLUSH WITH EACH OTHER.
- 3. MEASURE IN 12" FROM BOTH ENDS AND MARK WITH LINE.
- 4. ADD AN 'X' ON THE SIDE OF THE LINE FACING CENTER OF BOARD.
- 5. REPOSITION TAPE MEASURE END TO ALIGN WITH LINE AND MARK OFF 24" ON CENTER ALONG LENGTH OF BOARD.

TRUSS & RAFTER NOTES

- 1. POSITION GABLE END TRUSSES FLUSH WITH OUTSIDE FACE OF WALLS.
- 2. TOE NAIL TRUSSES TO WALL KING PLATE USING 16-PENNY NAILS SPACED AT 12 INCHES.
- 3. NAIL TRUSSES AND RAFTERS TO RIDGE BOARD USING THREE 16-PENNY NAILS, ONE ON EITHER SIDE AND ONE THROUGH THE FRONT OF THE TRUSS/RAFTER INTO THE RIDGE BOARD.
- 4. NAIL TRUSSES AND RAFTERS TO WALL KING PLATE USING TWO 16-PENNY NAILS, ONE ON EITHER SIDE OF TRUSS/RAFTER INTO THE KING PLATE. SQUARE RAFTERS WITH 3-4-5 TRIANGLE METHOD.
- 5. INSTALL 2X4 BLOCKING BETWEEN EACH TRUSS/RAFTER EXCEPT FOR END PAIR. POSITION BLOCK VERTICALLY AT OUTSIDE EDGE OF WALL AND NAIL THROUGH TRUSS/RAFTER INTO BLOCK WITH TWO 16-PENNY NAILS PER SIDE.
- 6. CUT 25 DEGREE PLUMB CUT IN FOUR 10 FT 2X4's.
 ALIGN AT CENTER OF RIDGE BOARD EDGE AND EAVE
 BOARD. MARK AND CUT TO LENGTH. END NAIL USING TWO
 16-PENNY NAILS EACH INTO RIDGE BOARD, OUTLOOKERS,
 AND EAVE BOARD. (SEE DIAGRAM ON ELEVATION DRAWING.)
- 7. INSTALL H2.5 CLIPS OR EQUIVALENT AT RAFTER TO WALL INTERSECTION. (SEE 'SECTION' DRAWING FOR LOCATION).
- 8. CUT AND INSTALL 35-1/4" 2X4 OUTLOOKER AT 4 LOCATIONS. END NAIL THROUGH RAFTER WITH TWO 16-PENNY NAILS AND TOP NAIL THROUGH OUTLOOKER INTO TRUSS WITH TWO 16-PENNY NAILS.
- 9. SNAP LINE AND CUT RAFTER TAILS TO SAME LENGTH.
- 10. CUT AND INSTALL FACIA BOARDS TO ENDS OF TRUSS/RAFTER TAILS. ALIGN INSIDE EDGE FLUSH TO RAFTER. ALIGN OUTSIDE EDGE TO THE SAME DISTANCE FROM THE GABLE TRUSS TO END OF RIDGE BOARD. NAIL USING TWO 16-PENNY NAILS INTO EACH TRUSS/RAFTER TAIL.

DIAGONAL ROOF BRACE

- 1. CUT 2 X 4 TO 62"
- 2. ON ONE END, CUT A 45-DEGREE ANGLE
- 3. ON THE OPPOSITE END, CUT A DOUBLE 45 DEGREEE ANGLE RESULTING IN A POINT (SEE DIAGRAM)
- 4. NAIL POINTED END IN CENTER OF 16-FT FRONT WALL, AT INTERSECTION OF GABLE AND TOP OF WALL
- 5. USE A LEVEL TO ENSURE GABLE END IN PLUMB, THEN NAIL UPPER END OF BRACE INTO RIDGE BEAM WITH TWO 16-P NAILS.

ROOF SHEETING NOTES

- 1. LAY FULL OR HALF SHEETS AS SHOWN ON DIAGRAM.
- 2. ENSURE EDGES ALIGN MID-WAY OVER TRUSS/REAFTER.
 NAIL ON EDGES AT 6 INCH SPACING AND IN FIELD AT 12 INCH
 SPACING USING 8-PENNY NAILS.
- 3. SNAP LINE AT EDGES OF ROOF AND CUT OFF OVERHANGING PIECES USING A CIRCULAR SAW.

REVISIONS

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6 FT X 20 FT HOUSE

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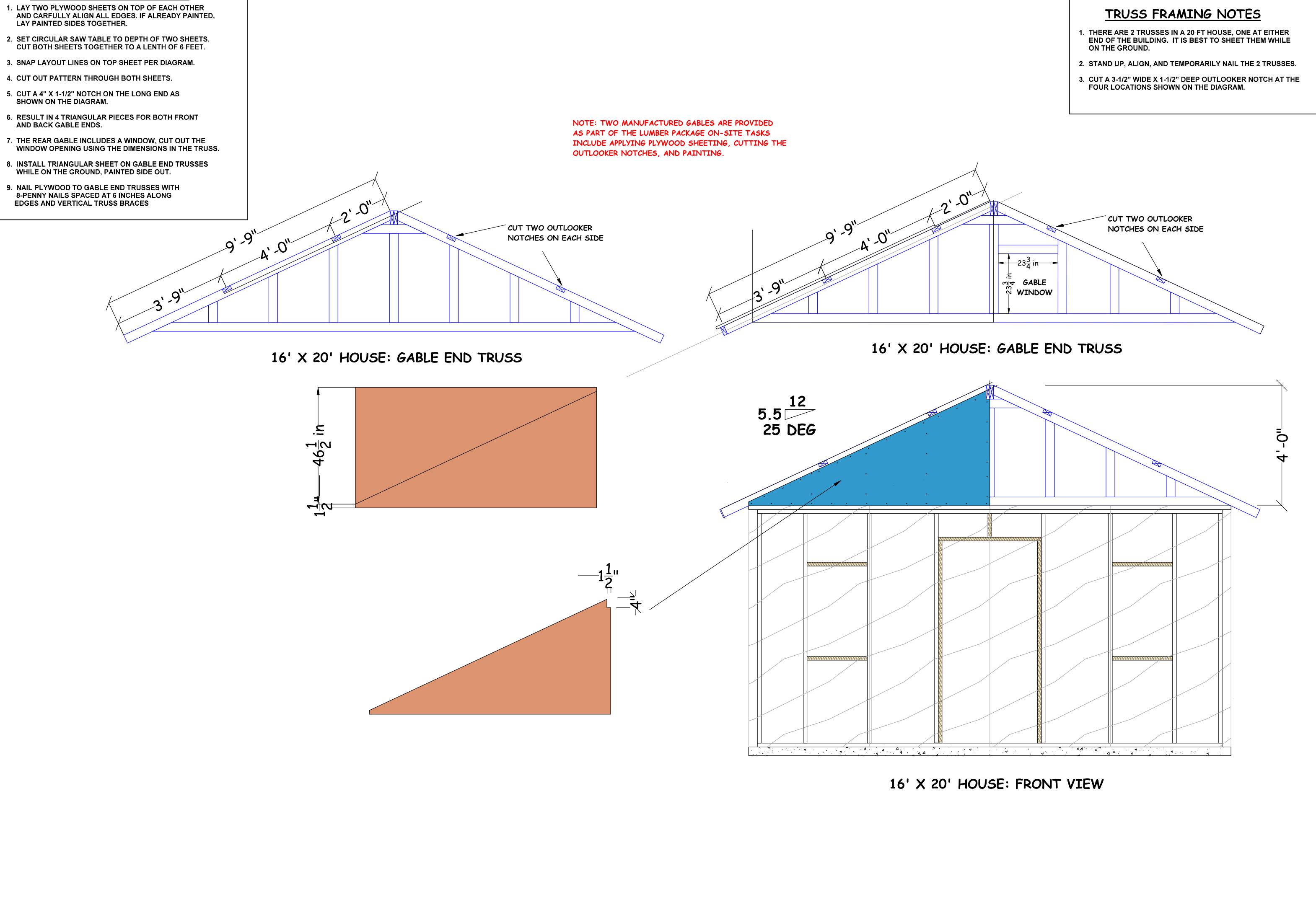
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SHEET 11

SCALE: VARIOUS

A11
OF 15 SHEETS

BOOE



GABLE SHEETING NOTES

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SCALE: VARIOUS

SHEET 12
Δ19

OF 15 SHEETS

TRUSSES

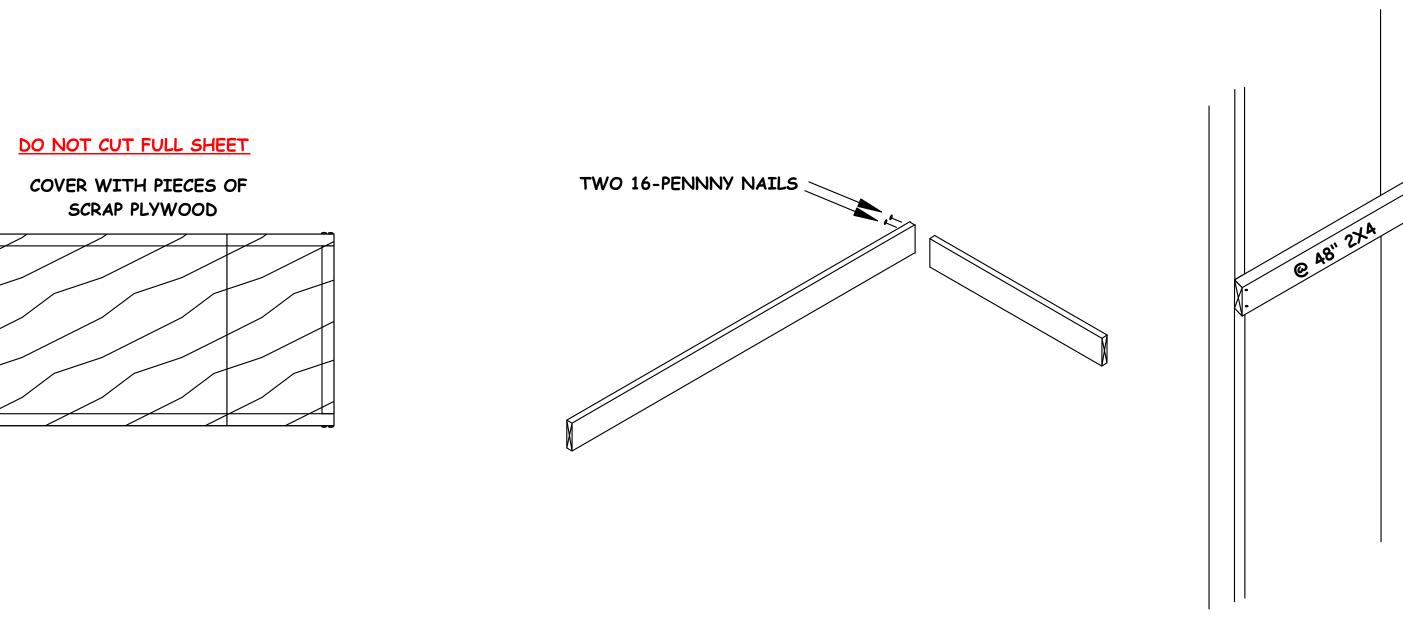


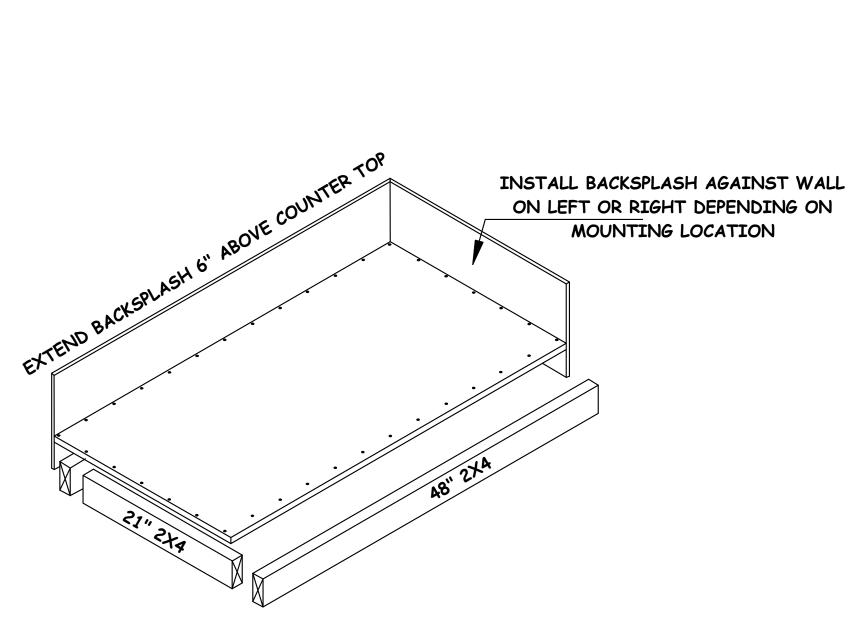
1. CONFIRM DESIRED LOCATION AND HEIGHT WITH HOMEOWNER

2. ADJUST BACK-SPLASH LOCATION ACCORDINGLY.

CONSTRUCTION DETAIL

- 1. CUT 8' 2X4 IN HALF TO GET TWO 48" PIECES
- 2. CUT TWO PIECES OF 2X4 TO 21", PREFERABLY FROM SCRAP
- 3. CUT 2X4 TO @ 48" AND @ 20" FROM SCRAP IF POSSIBLE TO FORM LEDGER.
- 4. ASSEMBLE FRAME AS SHOWN ON DIAGRAM.
- 5. CUT AND COVER TOP OF COUNTERTOP WITH SCRAP PIECES OF PLYWOOD, SUCH AS WINDOW OR DOOR CUTOUT.
- 6. SCREW OR NAIL (8 PENNY NAILS) PLYWOOD TO FRAME, ENSURE THAT FRAME IS SQUARE, BY MEASURING THE DIAGONALS. YOU SHOULD GET THE SAME MEASUREMENT.
- 7. CUT A SCRAP PIECE OF PLYWOOD OR OSB TO 48" X 10". CUT A SECOND PIECE TO 24" X 10"
- 8. NAIL TO BACK AND SIDE OF FRAME SO THAT TOP OF BACKSPLASH IS 6" HIGHER THAN TOP OF COUNTER TOP.
- 9. ADJUST BACKSPLASH LOCATION BASED ON OWNER SPECIFIED COUNTER LOCATION AND SCREW OR NAIL TO FRAME.
- 10. OPTIONALLY PAINT COUNTERTOP AND BACKSPLASH WITH HOUSE COLOR, OR APPLY LINOLEUM SQUARES IF AVAILABLE.





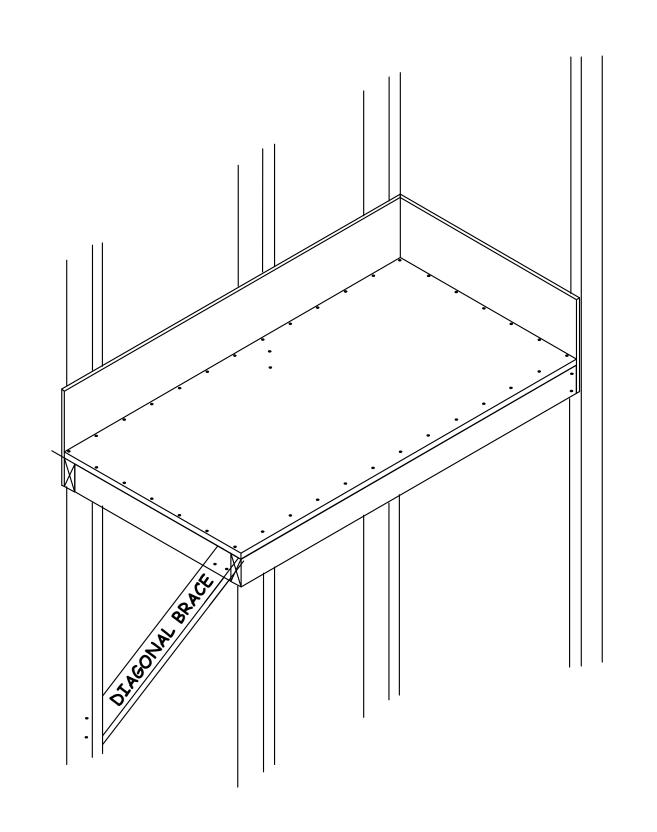
TWO 16-PENNNY NAILS

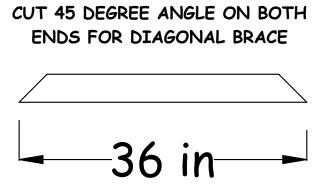
IN EACH CORNER

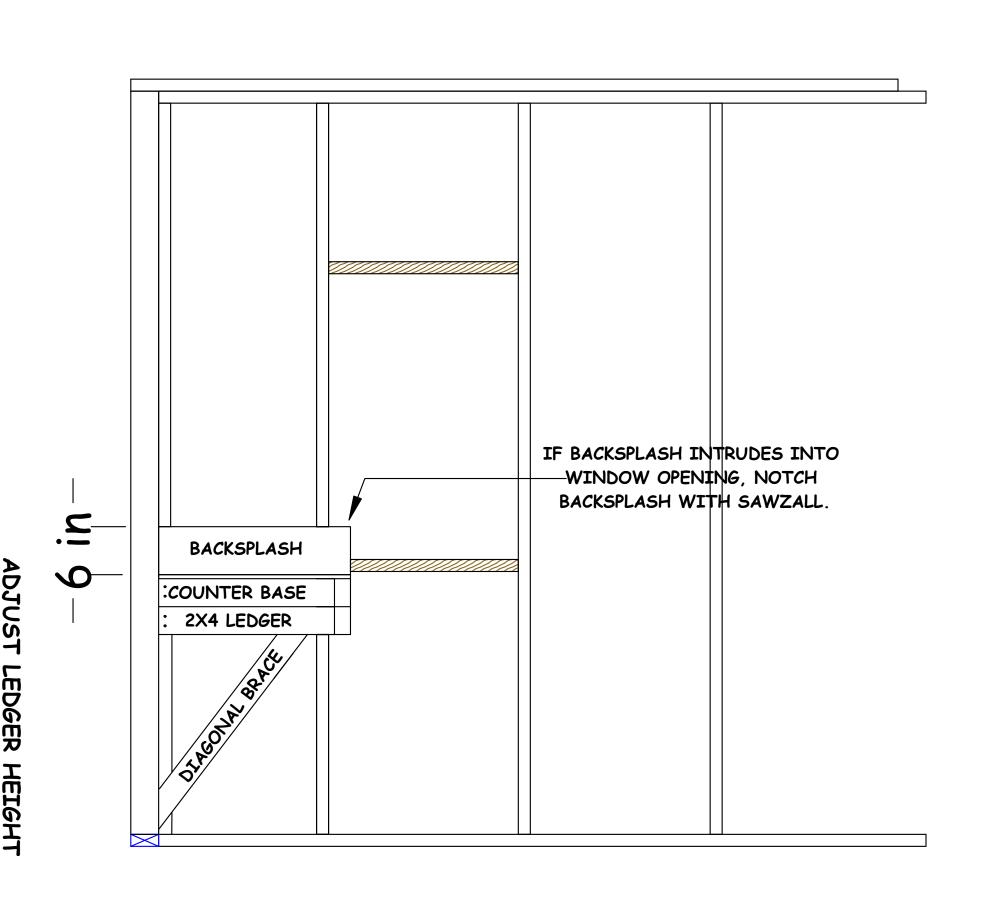
TWO 16-PENNNY NAILS
IN EACH CORNER

-48 in-

21







TAKE OFF

2 (TWO) 8 FT 2X4 (OR SCRAPS IF AVAILABLE)

Scraps of OSB or Plywood @ 48" x 10" and 24" x 10" for backsplash

2 FT X 4 FT OSB or Plywood (piece together with scraps as necessary)

REVISIONS

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6 FT X 20 FT HOUSE

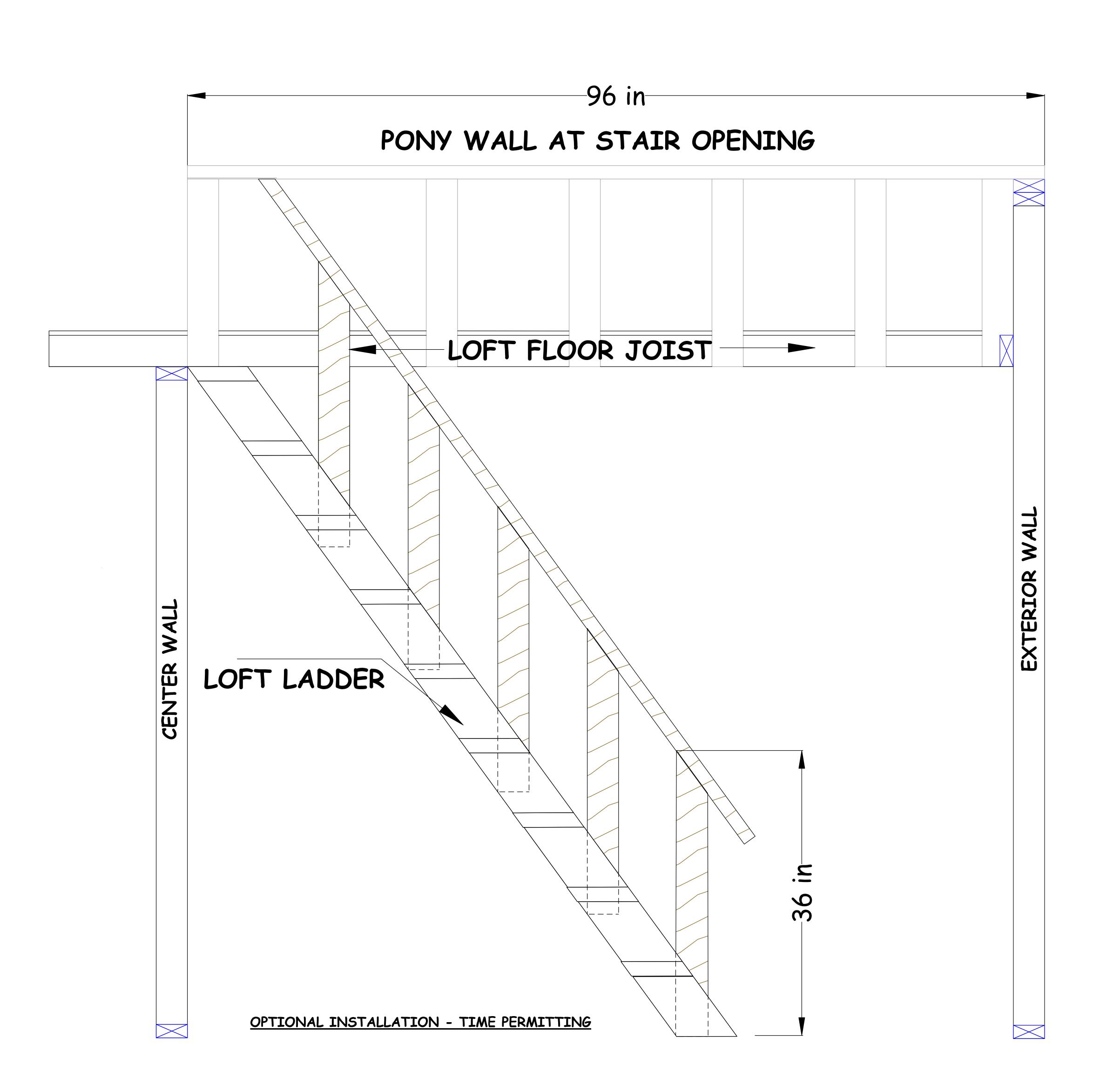
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SHEET 13

OF 15 SHEETS



LADDER HANDRAIL

1. CUT FIVE 36" PIECES FROM 8-FT 2X4s OR USE SCRAP IF AVAILAE
2. CUT A 36-DEGREE ANGLE ON ONE END.

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SHEET 14 **Δ14**

OF 15 SHEETS

REVISIONS

LOFT HANDRAIL NOTES

1. ON AN 8-FT 2X2, LAY OUT THE LOCATION FOR 11 BALASTERS

2. SCREW EACH BALLASTER TO THE HORIZONAL 2 X 2 USING

THAT THE TWO ARE MIRROR IMMAGES OF EACH OTHER.

THE ROOF SHEETING BEING INSTALLED.

JOIST WITH A SINGLE 2-1/2" SCREW.

3. PERFORM TO ABOVE STEPS ON A SECOND HANDRAIL NOTING

4. SET ASIDE UNTIL THE RAFTER ARE INSTALLED BUT PRIOR TO

5. TEMPORARILY HOLD EACH HANDRAIL IN PLACE, ENSURING THE BALLASTERS ARE FLUSH WITH THE BOTTOM OF THE LOFT JOIST.

6. MARK WHERE HANDRAIL INTERSECTS WITH THE TOP OF THE CLOSEST RAFTER AND CUT THE HANDRAIL AT THIS MARK (NOTE: ENSURE THE HANDRAIL DOES NOT EXTEND ABOVE

7. INSTALL EACH HANDRAIL WITH THE 1-3/4" PORTION OF THE

HORIZONTAL RAIL EXTEDING BEHIND THE FLOOR TO RIDGE POST. THE FIRST BALLASTER SHOULD BE TIGHT TO THE POST.

8. ENSURE THE BALLASTERS ARE FLUSH WITH THE BOTTOM OF THE LOFT JOIST AND SCREW THE BALLASTER TO THE LOFT

9. USE A LEVEL TO ENSURE EACH SUBSEQUENT BALLASTER IS PLUMB AND SCREW TO THE LOFT JOIST WITH A 2-1/2" SCREW.

10. NOTE THAT THERE WILL BE A GAP BETWEEN THE HORIZONTAL

11. PACK OUT THIS SPACE WITH SCRAP 2 X 4 AND PLYWOOD AS

12. INSTALL A SMALL PIECE OF HANDRAIL ALONG THE ROOFLINE **CUTTING A 25-DEGREE ANGLE ON ONE END TO BUT AGAINST**

13. OPTIONALLY PLACE A 2 X 4 TOP CAP ON TOP OF EACH HANDRAIL

THE HORIZONTAL HANDRAIL END. INSTALL TWO MORE BALLASTERS TO CLOSE THE GAP (SEE DIAGRAM)

REQUIRED TO ENSURE THE HANDRAIL IS PLUMB.

HANDRAIL AND THE NEAREST RAFTER BY BETWEEN 1-1/2 - 3" DEPENDING ON THE INSTALLED LOCATION OF THE RAFTER.

(SEE THE DIAGRAMS BELOW)

A SINGLE 2-1/2" SCREW

THE RAFTER)

DRAWN: J. ZAWIS DATE: 10/27/2016 **SCALE: VARIOUS**

> SHEET 15 **A15**

OF 15 SHEETS LOFT HANDRAIL

