

PROJECT MERCY

16 FT X 20 FT HOUSE

PROJECT MERCY

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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

SHEET INDEX

A1	TITLE SHEET
A2	FLOOR PLAN
A3	ELEVATIONS
A4	BUILDING SECTIONS
A5	FRAMING ELEVATION (FRONT)
A6	FRAMING ELEVATION (REAR)
A7	FRAMING ELEVATION (LONG WALL)
A8	FRAMING ELEVATION (INTERIOR WALL)
A9	LOFT JOISTS
A10	LOFT STAIRS & WALL
A11	ROOF DETAIL
A12	GABLES
A13	KITCHEN COUNTER
A14	LADDER HANDRAIL
A15	LOFT HANDRAIL



REVISIONS

PROJECT MERCY

16 FT X 20 FT HOUSE

DRAWN: J. ZAWIS

DATE: 4/27/2017

SCALE: VARIOUS

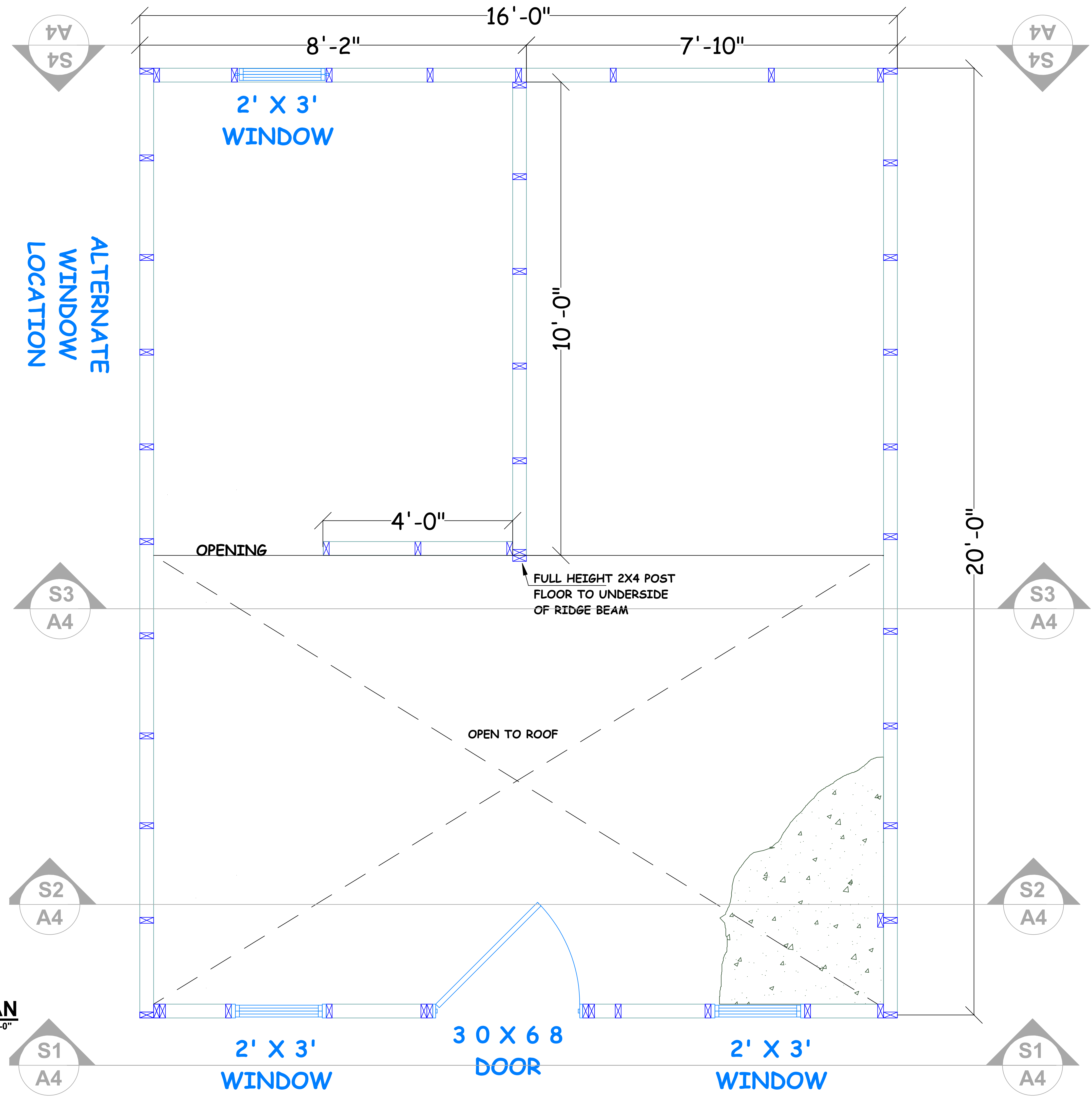
SHEET 1

A1

OF 15 SHEETS

TITLE SHEET

FLOOR PLAN
SCALE: 1/4" = 1'-0"



WALL FRAMING NOTES

1. USE 91-1/2" 2x4's FOR EXTERIOR WALL STUDS
2. STUDS SPACED AT 24" O.C.
3. DOOR AND WINDOW LOCATIONS ARE TYPICAL. SPECIFIC LOCATIONS ARE AT THE DISCRETION OF THE LEAD BUILDER. CONSULT WITH FAMILY IF ABLE.

REVISIONS

NO.	DESCRIPTION

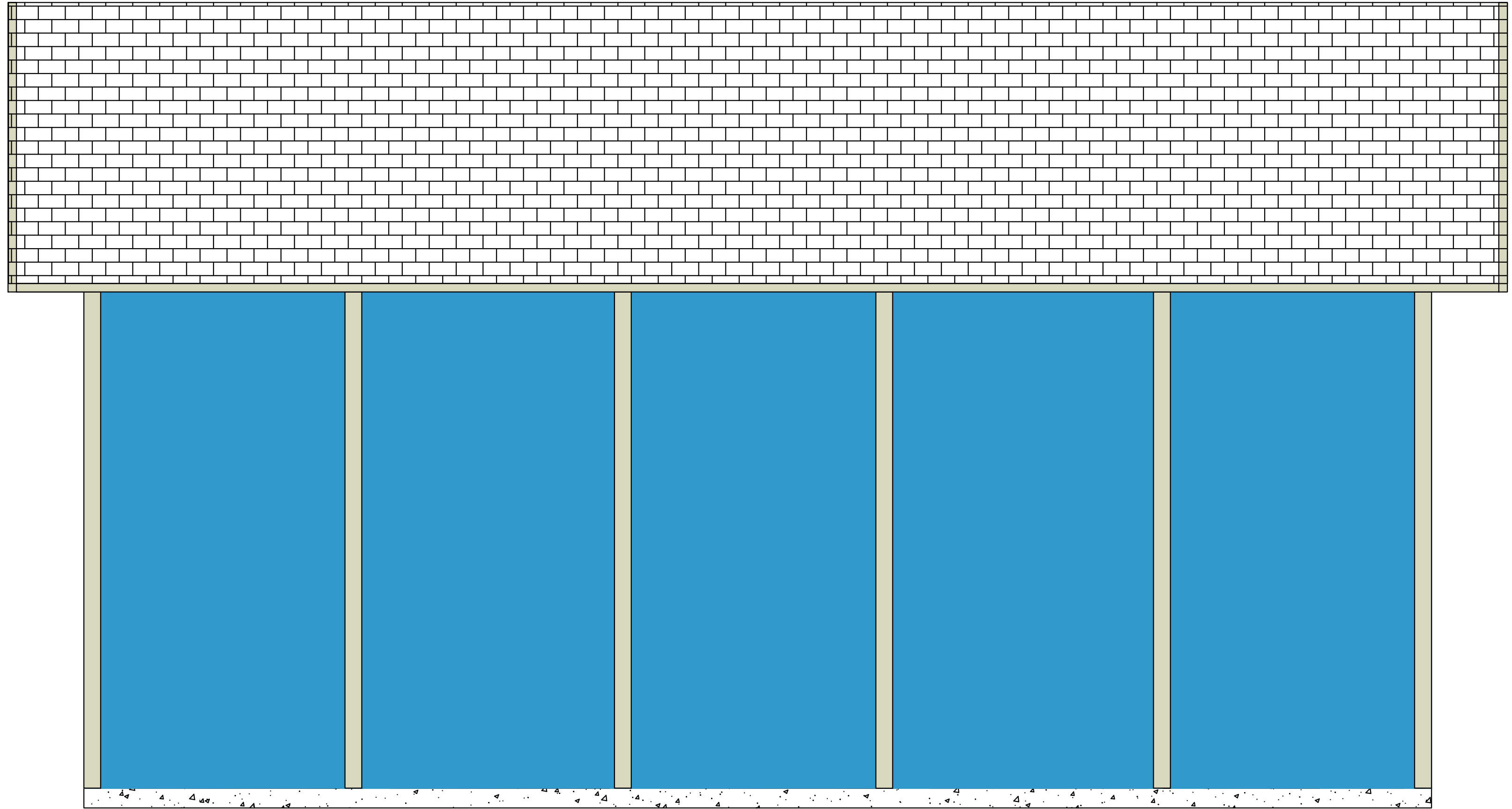
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DATE: 4/27/2017
SCALE: VARIOUS

SHEET 2
A2
OF 15 SHEETS

FLOOR PLAN



WALL ELEVATION (BOTH SIDES)
(WINDOW ON ONE SIDE ONLY)

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
- NOTE: CAULK THE TOPS OF ALL HORIZONTAL TRIM PIECES TO AVOID LEAKS
4. CAULK WINDOW EDGES BEFORE INSTALLING.
- IF TIME PERMITS:
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

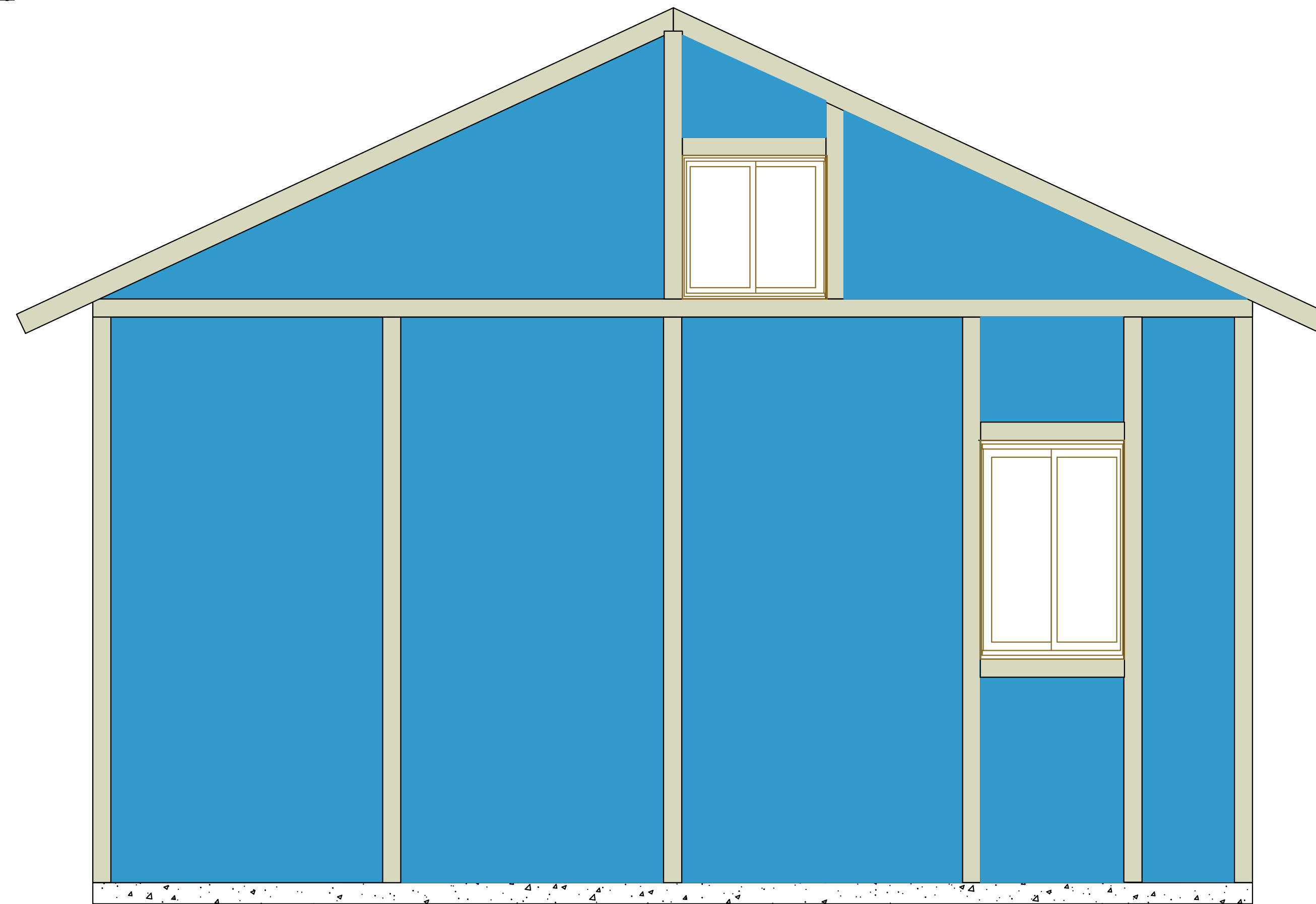
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FRONT ELEVATION



REAR ELEVATION

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

SHEET 3

A3

OF 15 SHEETS

ELEVATIONS

WALL FRAMING NOTES

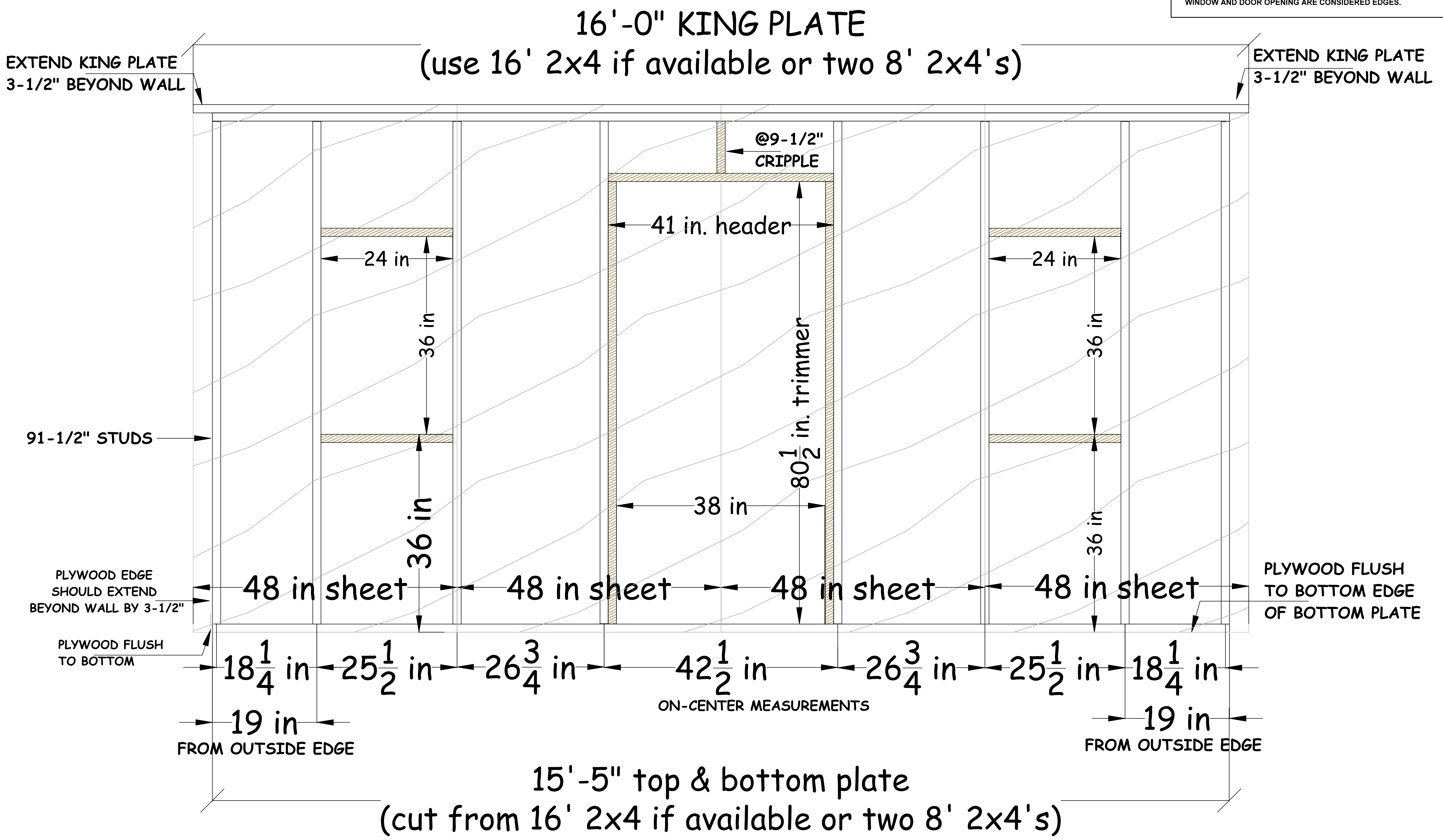
1. KING PLATE SHOULD OVERHANG WALL BY 3-1/2" BOTH SIDES
2. DOOR ROUGH OPENING SHOULD BE ACTUAL DOOR/JAMB MEASUREMENT PLUS 1/2". ADD ADDITIONAL STUD AS NECESSARY
3. CUT CRIPPLE ABOVE DOOR TO FIT (NOMINALLY 9-1/2")
4. WINDOW ROUGH OPENINGS SHOWN ARE NOMINAL. CHECK ACTUAL WINDOW WIDTH AND HEIGHT MEASUREMENTS AND ADJUST ROUGH OPENING AS NECESSARY (ACTUAL MEASUREMENT PLUS 1/4")
5. TAKE CARE IN SQUARING WALLS WHEN SHEETING TO PREVENT LARGE GAPS BETWEEN BOTTOM PLATE AND FOUNDATION WHEN STANDING WALLS.
6. NAIL PLYWOOD TO WALLS WITH 8-PENNY NAILS SPACED AT 6 INCHES ALONG EDGES AND 12 INCHES IN THE FIELD. WINDOW AND DOOR OPENING ARE CONSIDERED EDGES.

REVISIONS
R1-ADJUST DOOR DIMENSIONS

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SCALE: 1" = 1'-0"
SHEET 5
A5
OF 15 SHEETS
FRONT WALL



NOTE: THERE ARE 3 WINDOWS ON THE LOWER WALLS; TWO IN THE FRONT WALL AND ONE IN EITHER THE REAR WALL OR IN ONE OF THE SIDE WALLS.

THE PREFERRED LOCATION IS THE REAR WALL FOR IMPROVED AIRFLOW AND VENTILATION.

HOWEVER, AT THE DISCRETION OF THE HOME OWER AND LEAD BUILDER, IF THE VIEW FROM THE REAR IS BLOCK OR THERE IS A MORE DESIRABLE VIEW FROM THE SIDE, THE WINDOW CAN BE RELOCATED TO ONE OF THE SIDE WALLS.

- WALL FRAMING NOTES**
1. KING PLATE SHOULD OVERHANG WALL BY 3-1/2" BOTH SIDES
 2. IF A WINDOW IS INSTALLED ON THE REAR WALL, IT IS PREFERABLE TO LOCATE IT ON THE ROOM SIDE, OPPOSITE THE STAIRS TO ADD LIGHT TO THAT ROOM)
 3. WINDOW ROUGH OPENING SHOWN IS NOMINAL. CHECK ACTUAL WINDOW WIDTH AND HEIGHT MEASUREMENTS AND ADJUST ROUGH OPENING AS NECESSARY (ACTUAL MEASUREMENT PLUS 1/4")
 4. LOCATE WINDOW OPENING SUCH THAT ONE EDGE BEGINS ON STUD THAT FALLS ON PLYWOOD PANEL EDGE. THIS WILL PRECLUDE NEED FOR ADDITIONAL LUMBER.
 5. TAKE CARE IN SQUARING WALLS WHEN SHEETING TO PREVENT LARGE GAPS BETWEEN BOTTOM PLATE AND FOUNDATION WHEN STANDING WALLS.

REVISIONS

PROJECT MERCY

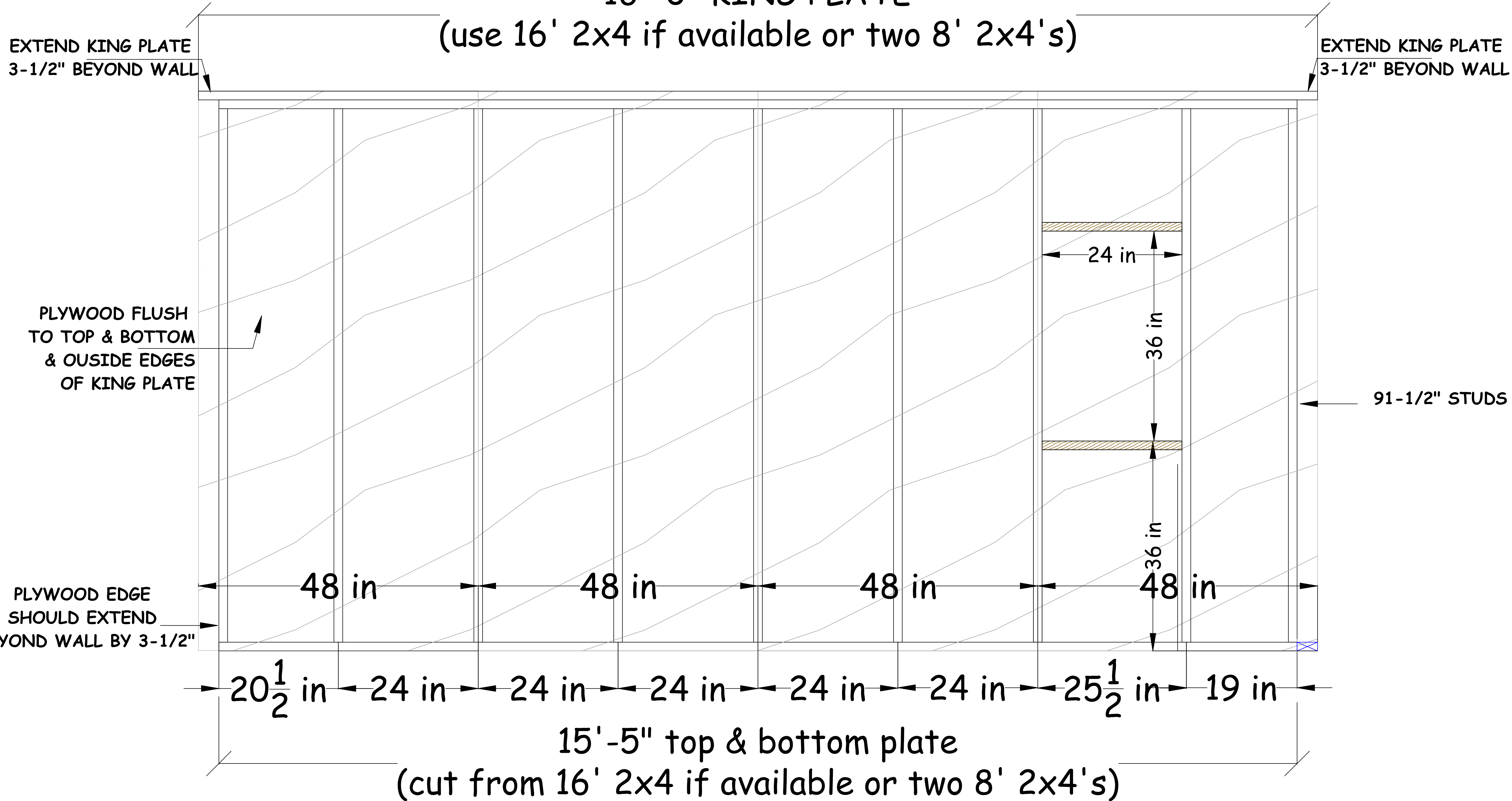
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SCALE: 1" = 1'-0"

SHEET 6
A6
OF 15 SHEETS

REAR WALL

16'-0" KING PLATE
(use 16' 2x4 if available or two 8' 2x4's)



15'-5" top & bottom plate
(cut from 16' 2x4 if available or two 8' 2x4's)

NOTE: THERE ARE 3 WINDOWS ON THE LOWER WALLS;
TWO IN THE FRONT WALL AND ONE IN EITHER THE REAR
WALL OR IN ONE OF THE SIDE WALLS.

THE PREFERRED LOCATION IS THE REAR WALL FOR IMPROVED
AIRFLOW AND VENTILATION.

HOWEVER, AT THE DISCRETION OF THE HOME OWER AND LEAD
BUILDER, IF THE VIEW FROM THE REAR IS BLOCK OR THERE IS
A MORE DESIRABLE VIEW FROM THE SIDE, THE WINDOW CAN BE
RELOCATED TO ONE OF THE SIDE WALLS.

- WALL FRAMING NOTES**
1. IF A WINDOW IS INSTALLED ON THE SIDE WALL, IT IS PREFERABLE TO LOCATE IT ON THE ROOM SIDE, OPPOSITE THE STAIRS TO ADD LIGHT TO THAT ROOM)
 2. WINDOW ROUGH OPENING SHOWN IS NOMINAL. CHECK ACTUAL WINDOW WIDTH AND HEIGHT MEASUREMENTS AND ADJUST ROUGH OPENING AS NECESSARY (ACTUAL MEASUREMENT PLUS 1/4")
 3. LOCATE WINDOW OPENING SUCH THAT ONE EDGE BEGINS ON STUD THAT FALLS ON PLYWOOD PANEL EDGE. THIS WILL PRECLUDE NEED FOR ADDITIONAL LUMBER.
 3. TAKE CARE IN SQUARING WALLS WHEN SHEETING TO PREVENT LARGE GAPS BETWEEN BOTTOM PLATE AND FOUNDATION WHEN STANDING WALLS.
 4. NAIL PLYWOOD TO WALLS WITH 8-PENNY NAILS SPACED AT 6 INCHES ALONG EDGES AND 12 INCHES IN THE FIELD. WINDOW OPENINGS ARE CONSIDERED EDGES.

REVISIONS

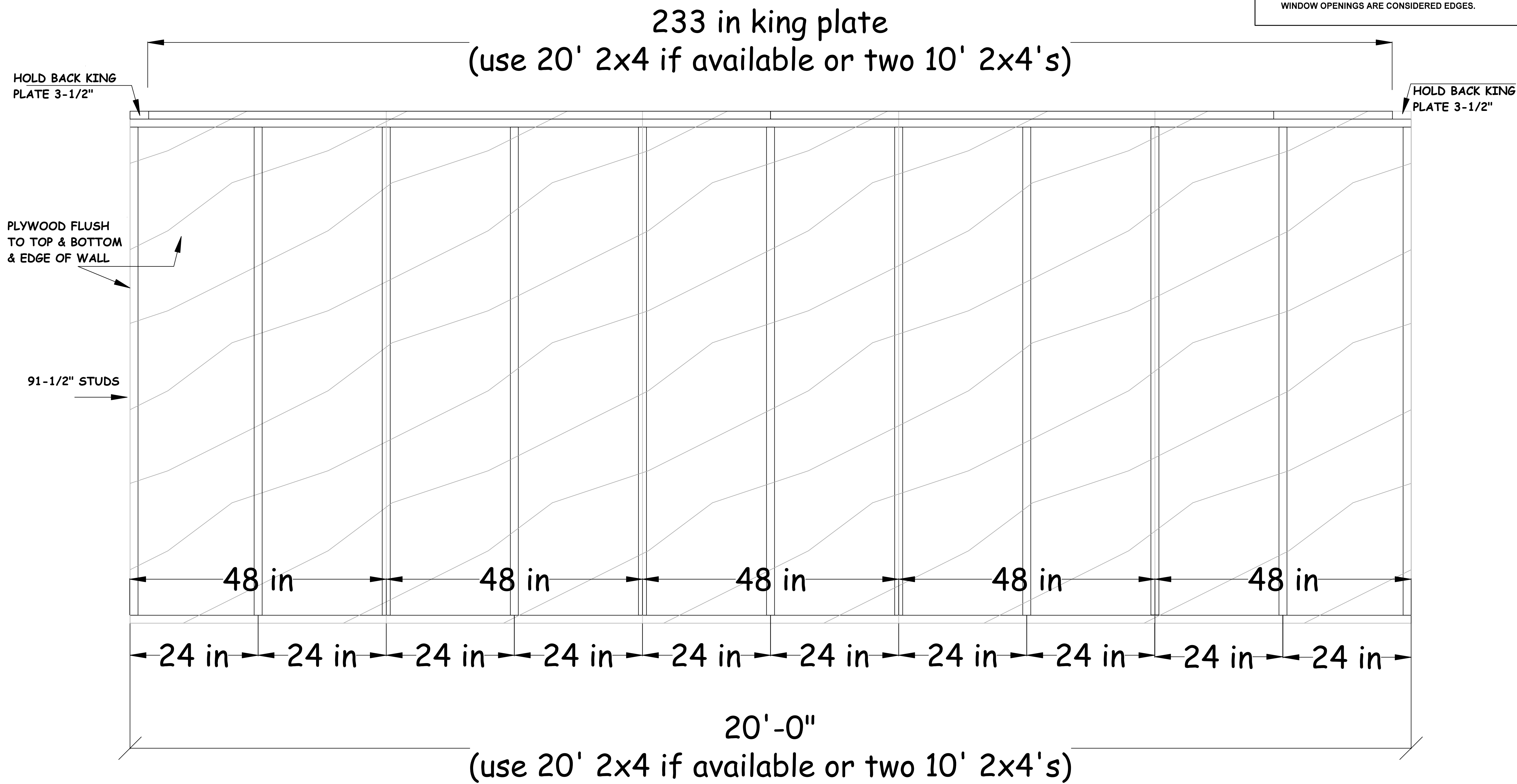
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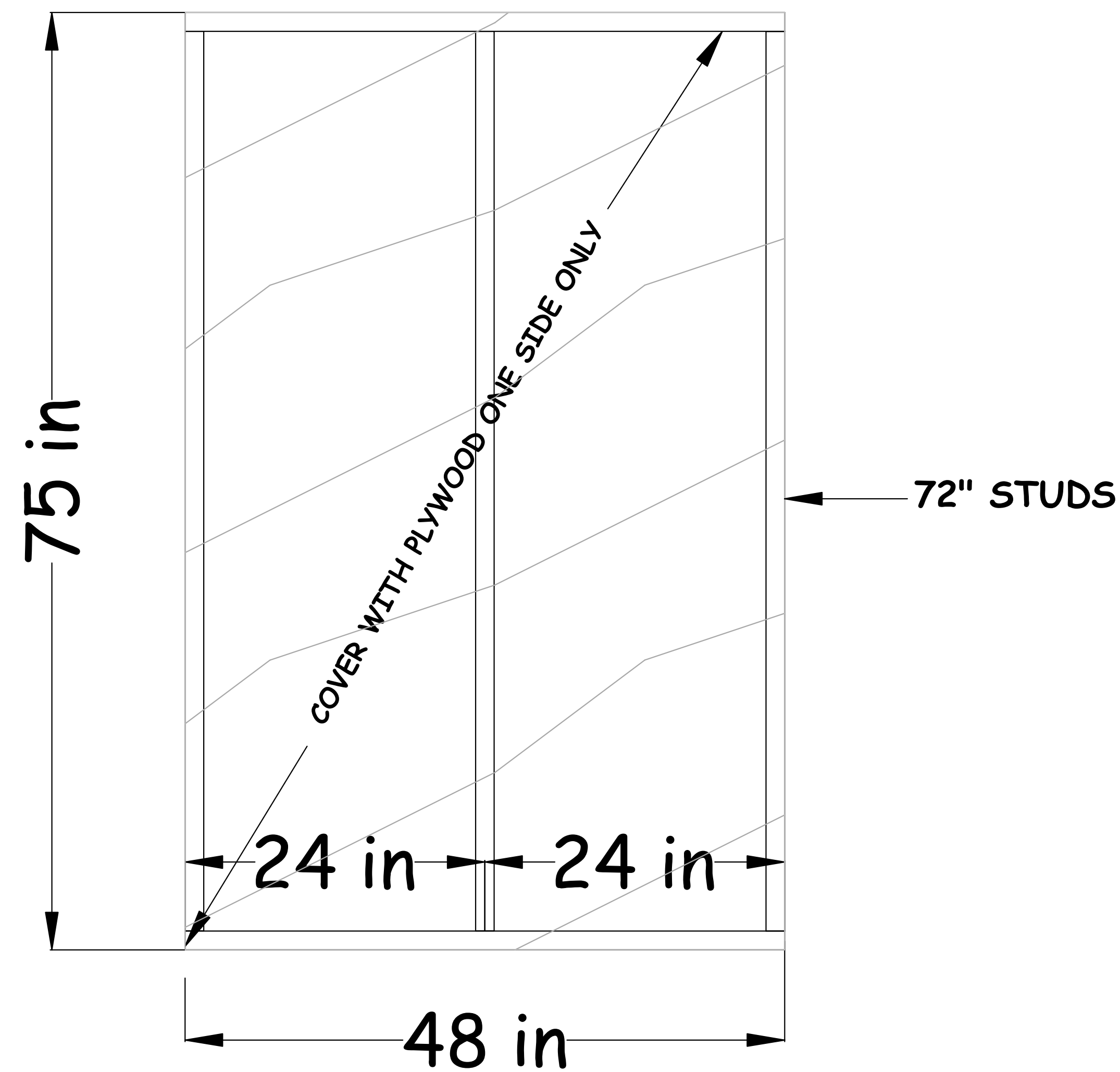
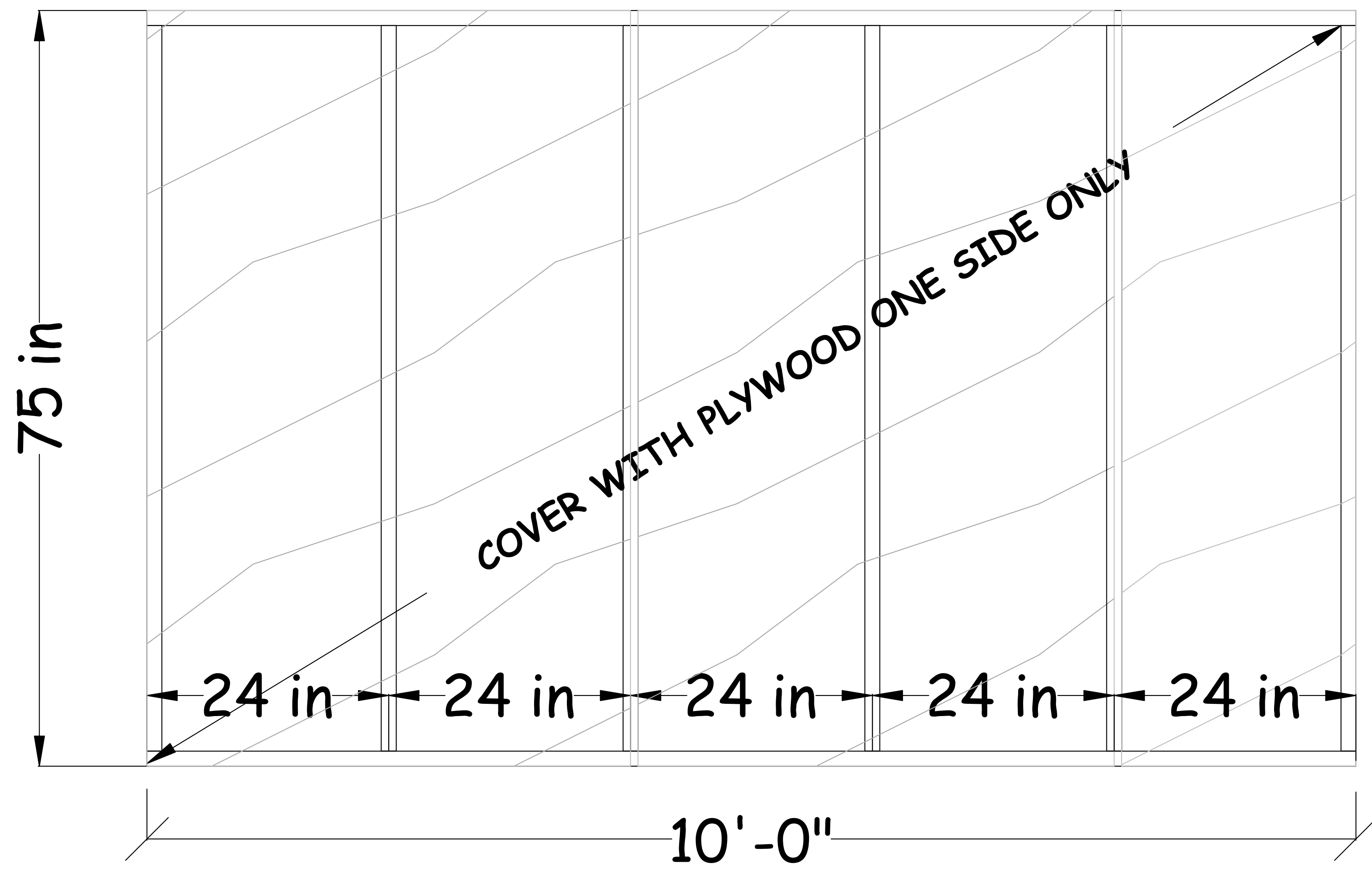
16 FT X 20 FT HOUSE

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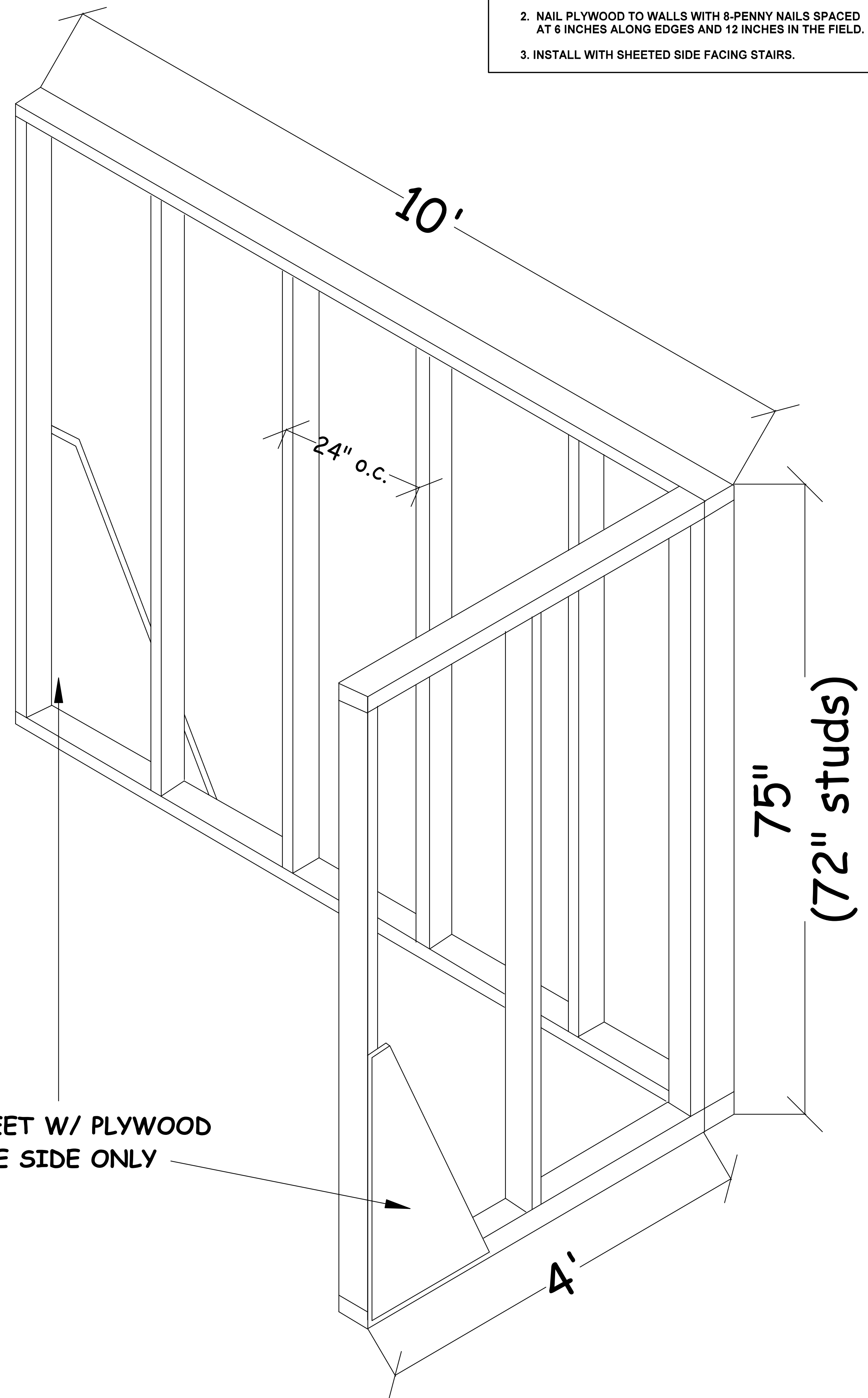
SHEET 7
A7
OF 15 SHEETS

LONG WALLS





NOTE: SHEET W/ PLYWOOD ONE SIDE ONLY



WALL FRAMING NOTES

1. SHEET ONE SIDE ONLY.
2. NAIL PLYWOOD TO WALLS WITH 8-PENNY NAILS SPACED AT 6 INCHES ALONG EDGES AND 12 INCHES IN THE FIELD.
3. INSTALL WITH SHEETED SIDE FACING STAIRS.

REVISIONS

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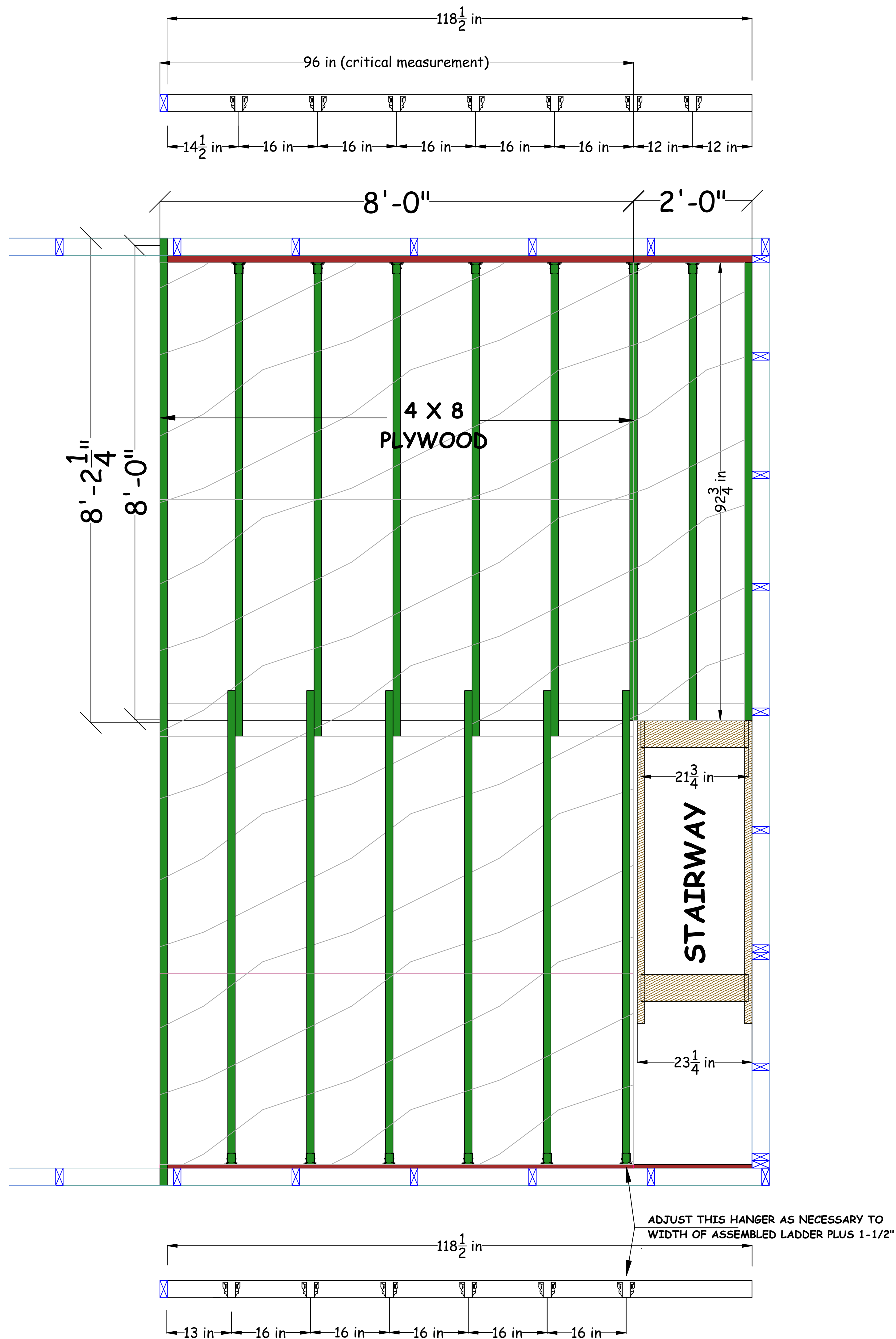
16 FT X 20 FT HOUSE

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SCALE: VARIOUS

SHEET 8

A8
OF 15 SHEETS

INTERIOR WALL



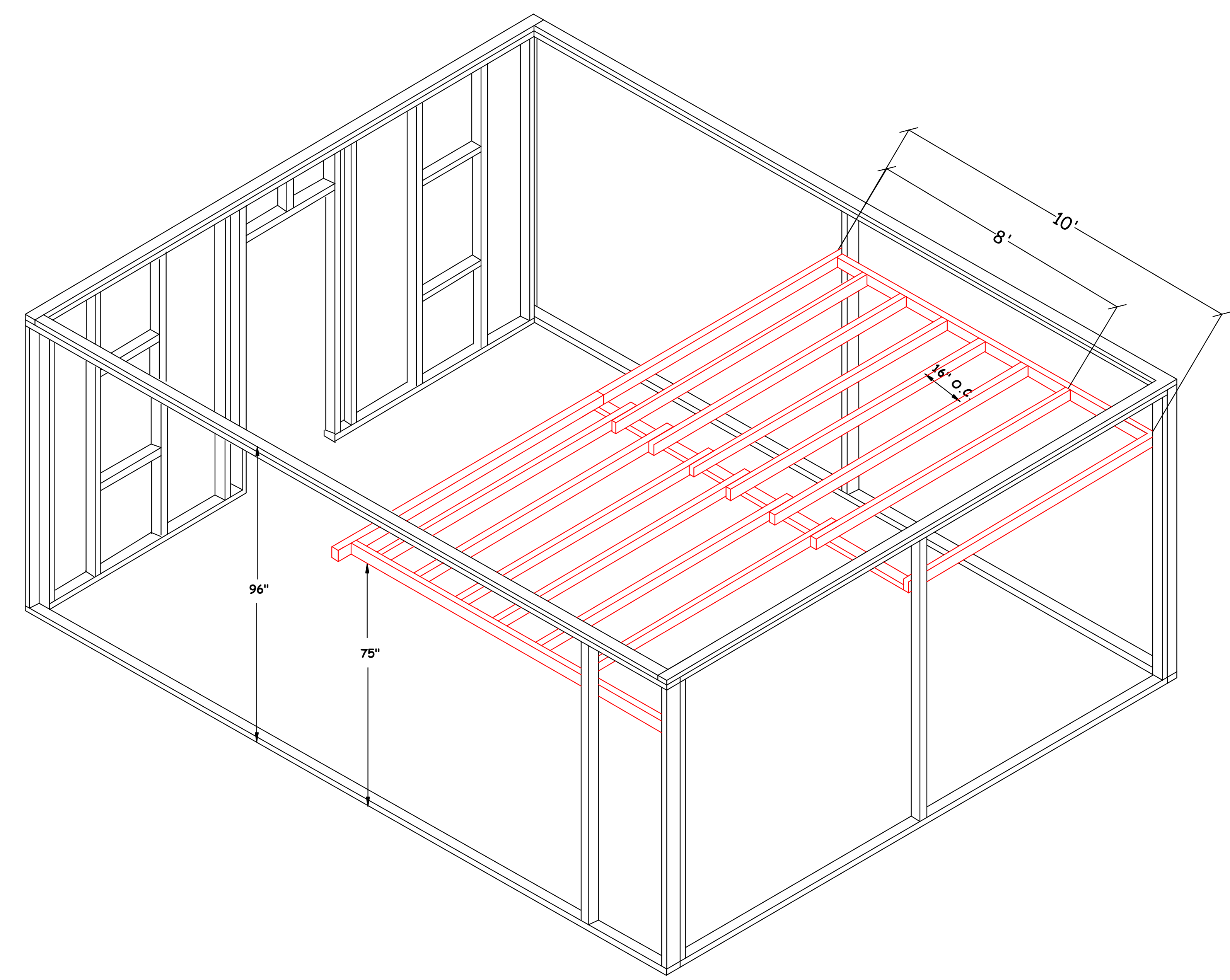
LOFT JOIST FRAMING NOTES

1. STAIRWELL MAY BE REVERSED (MIRROR IMAGE) AT DISCRETION OF LEAD BUILDER AND HOMEOWNER
2. MEASURE ACTUAL WIDTH OF COMPLETE STAIRWAY AND ADD 1-1/2". USE THIS MEASUREMENT TO SET FINAL JOIST HANGER AT STAIRWELL (SEE DIAGRAM)
3. CREATE JOIST LEDGERS AS SHOWN IN DIAGRAM. NAIL JOIST HANGERS TO LEDGER WITH JOIST NAILS OR 8D PENNEY NAILS AS AVAILABLE.
4. INSTALL LEDGERS AT 75" FROM FLOOR. BOTTOM OF LEDGER AT 75".
5. NAIL TWO 8-FT 2X4'S TO FRONT OF LOFT. THE ENDS SHOULD TOUCH THE EXTERIOR WALLS AND BUTT TOGETHER OVER THE CENTER WALL.
6. USE 8' 2X4'S FOR JOISTS. INTERSECT OVER CENTER WALL. LAST 3 JOISTS AT STAIRWELL NEED TO TO BE CUT FLUSH WITH INTERIOR WALL.
7. SQUARE THE JOIST AND NAIL TO CENTER WALL.
8. INSTALL 4X8 PLYWOOD SHEETS OVER JOISTS AS SHOWN. CUT AND FIT REMAINING PIECES TO COMPLETELY COVER LOFT EXCEPT AT STAIRWELL. TRIM EXCESS AS NECESSARY. NAIL AT 8" SPACING ALONG ALL JOISTS WITH 8-PENNY NAILS.

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LOFT JOIST LAYOUT

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 SCALE: 1/4" = 1' 0"

SHEET 9
A9
 OF 15 SHEETS

LOFT JOISTS

STAIRWELL PONY WALL

1. OPTIONAL CONSTRUCTION - TIME PERMITTING
2. VERIFY ACTUAL MEASUREMENTS AFTER LOFT IS BUILT.
3. USE SCRAP LUMBER AND PLYWOOD WHERE ABLE.

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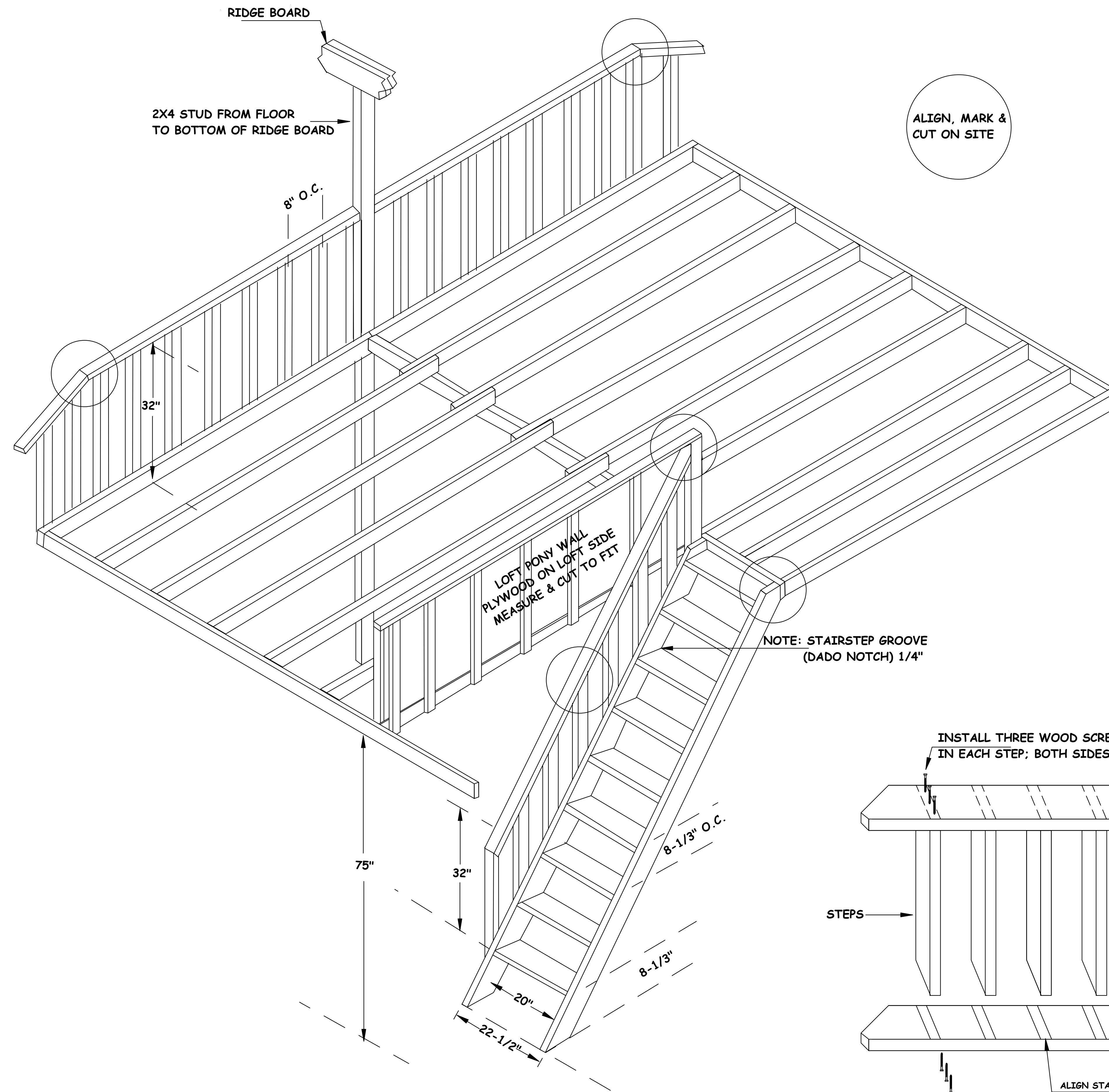
SCALE: 1/4" = 1' 0"

SHEET 10

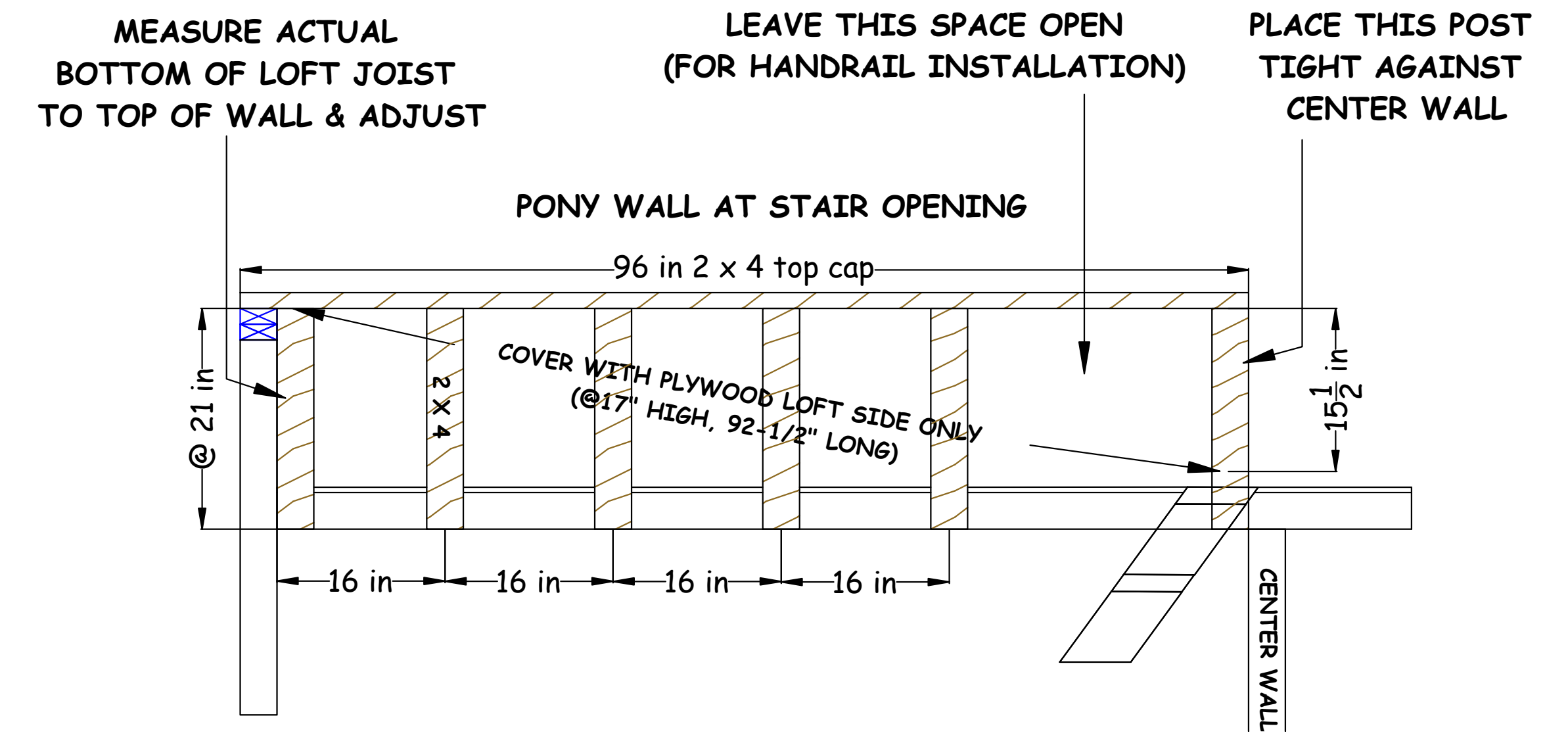
A10

OF 15 SHEETS

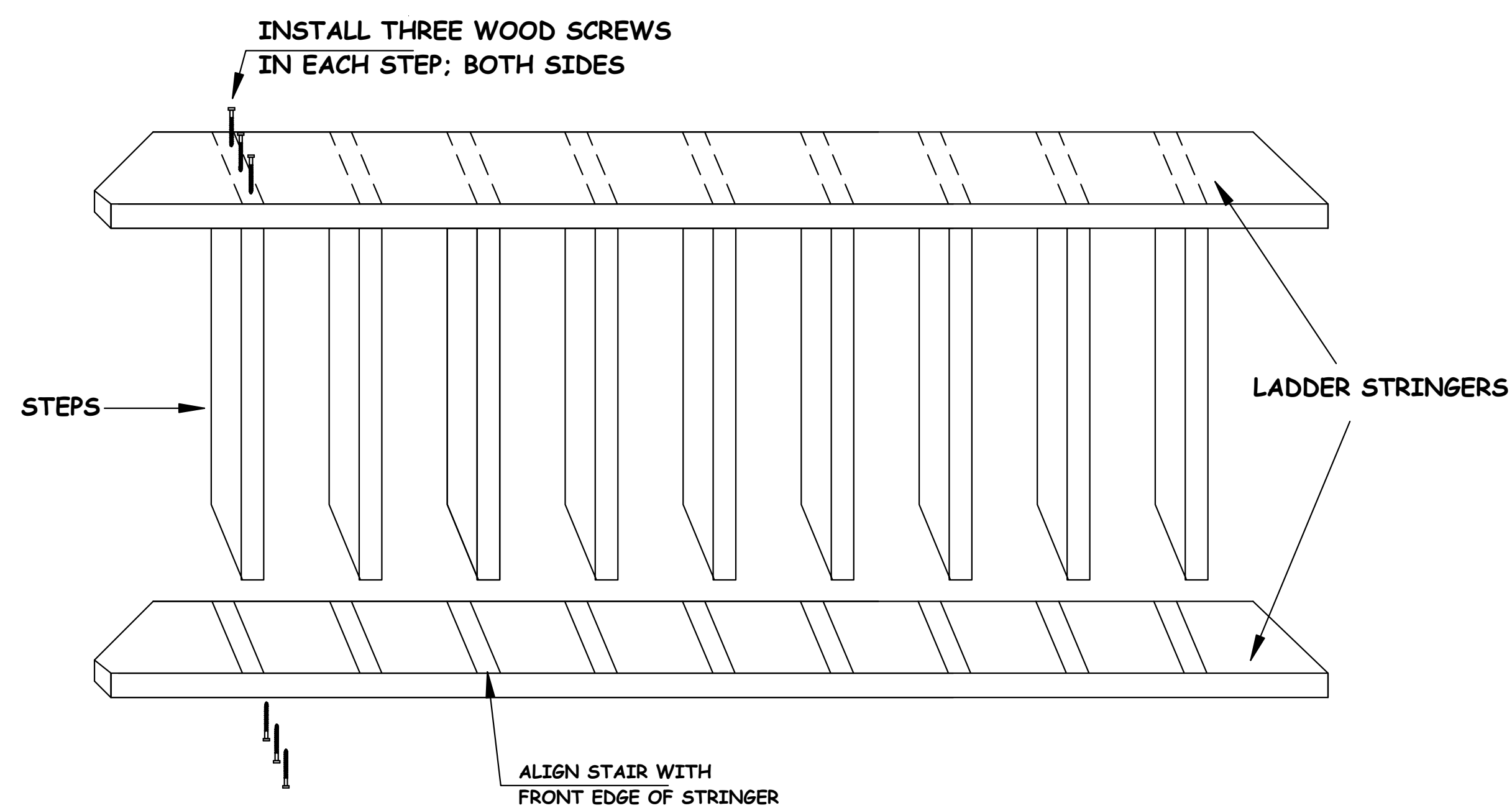
LOFT



LOFT ISOMETRIC



LOFT PONY WALL

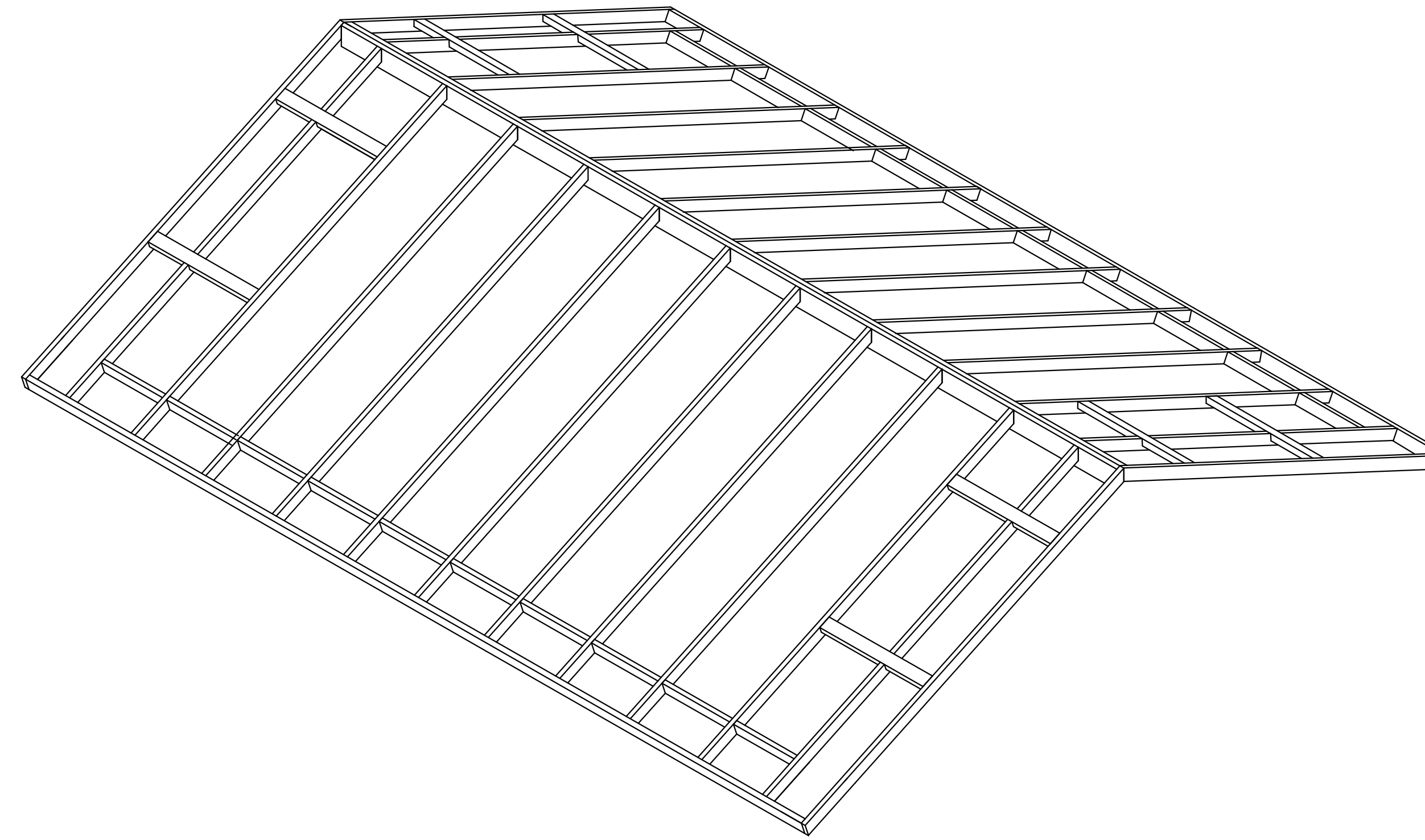
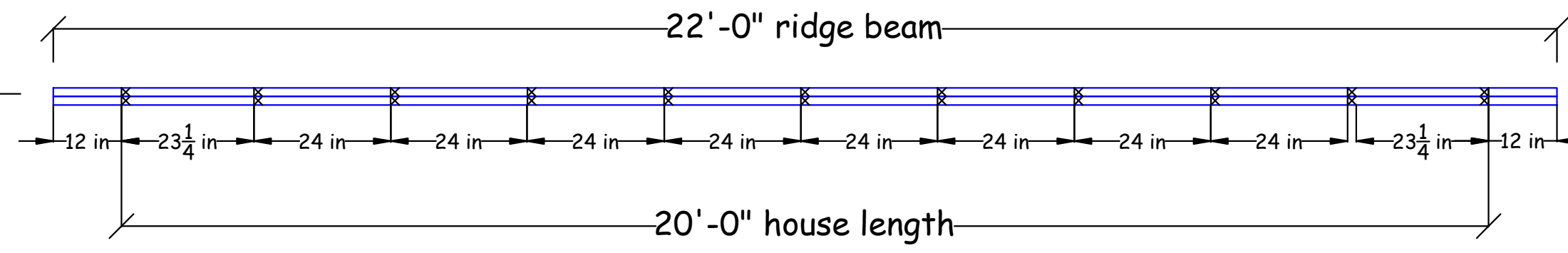
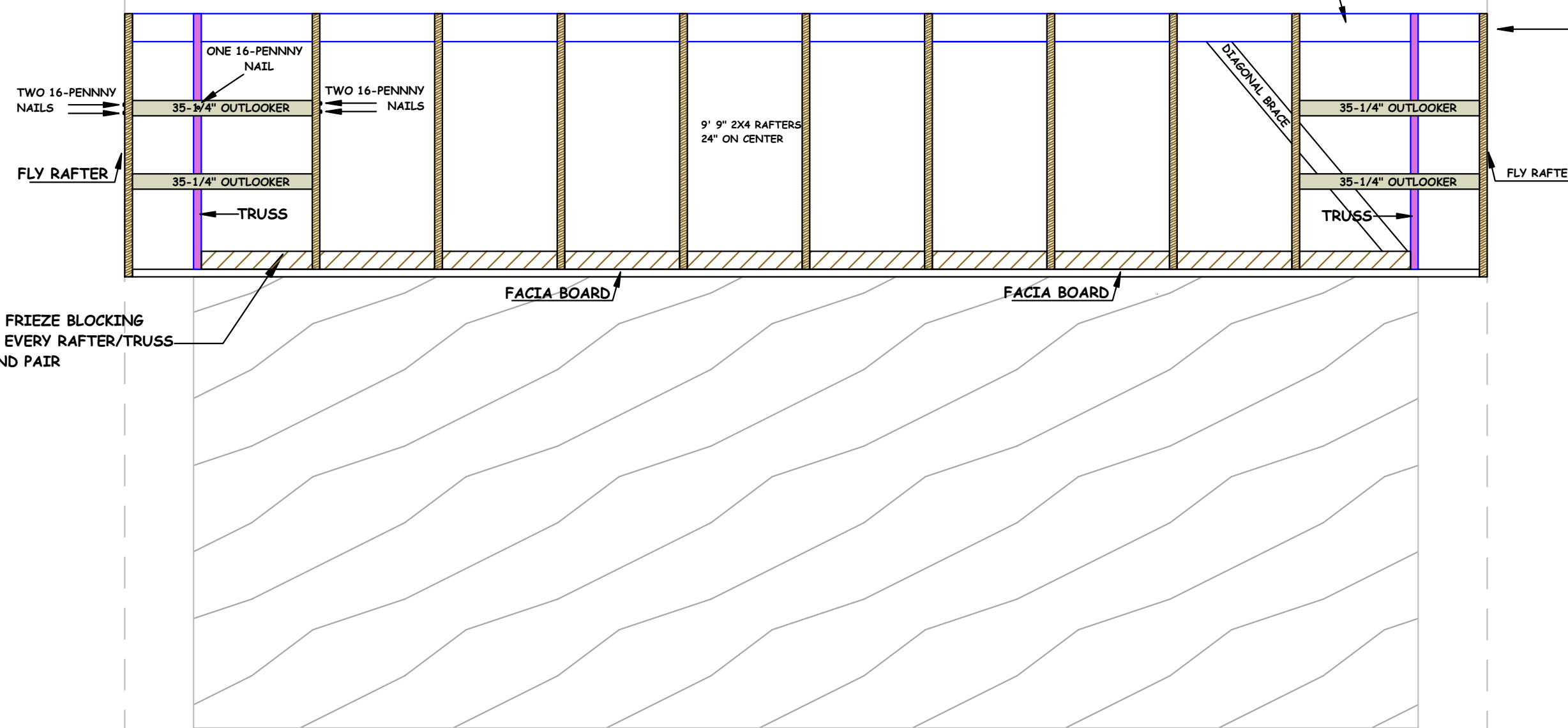


STAIRS

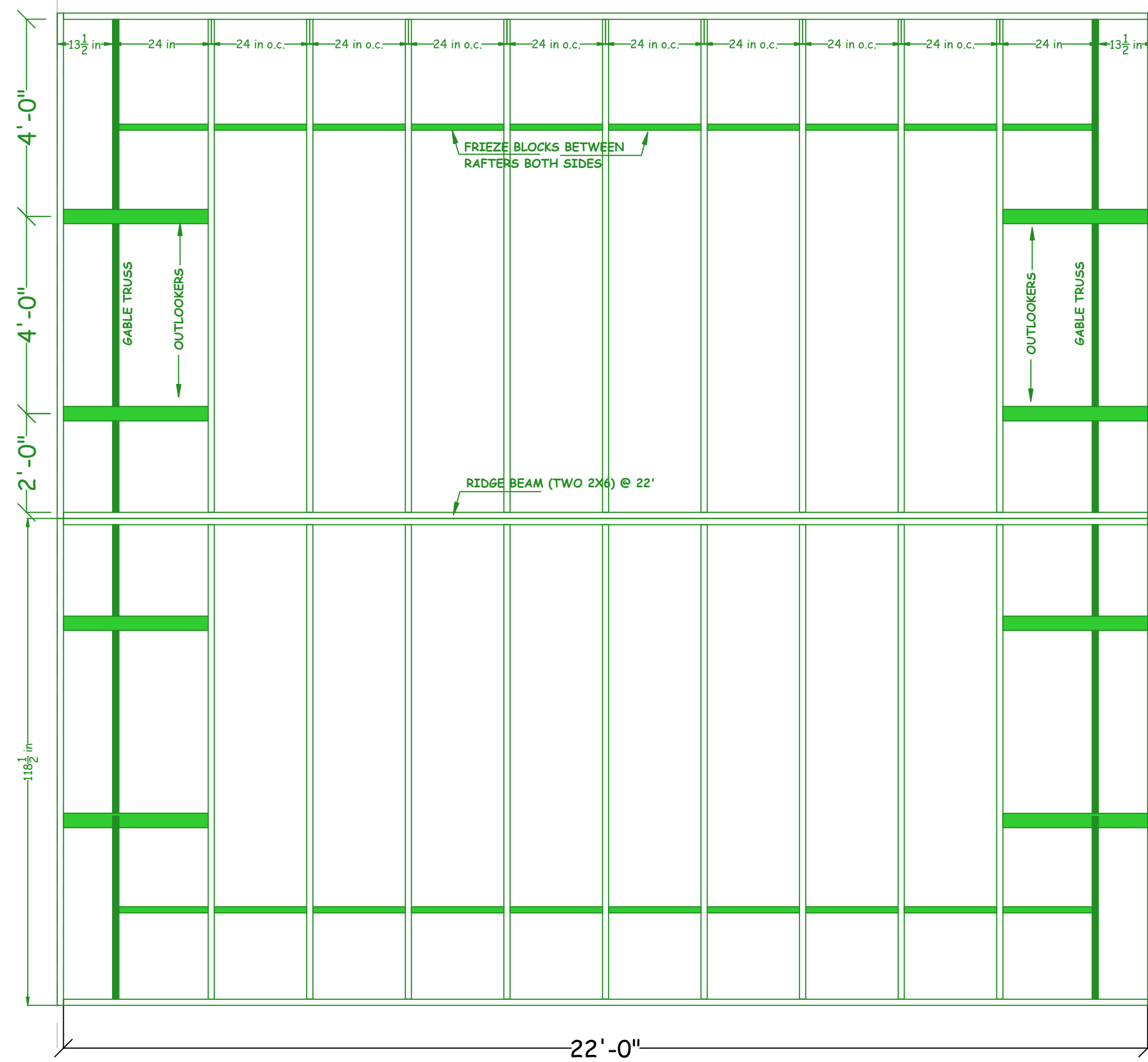
NOTE: LADDER KITS ARE PRE-NOTCHED WITH THE PROPER ANGLE AND TREADS ARE PROVIDED. ASSEMBLY REQUIRES SCREWING THE PIECES TOGETHER WITH THREE 3" SCREWS PER TREAD.

16' X 20' HOUSE: RIDGE BOARD

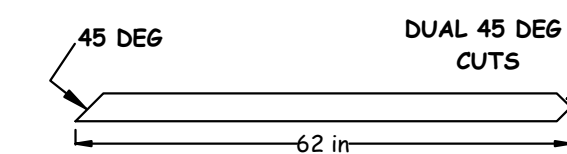
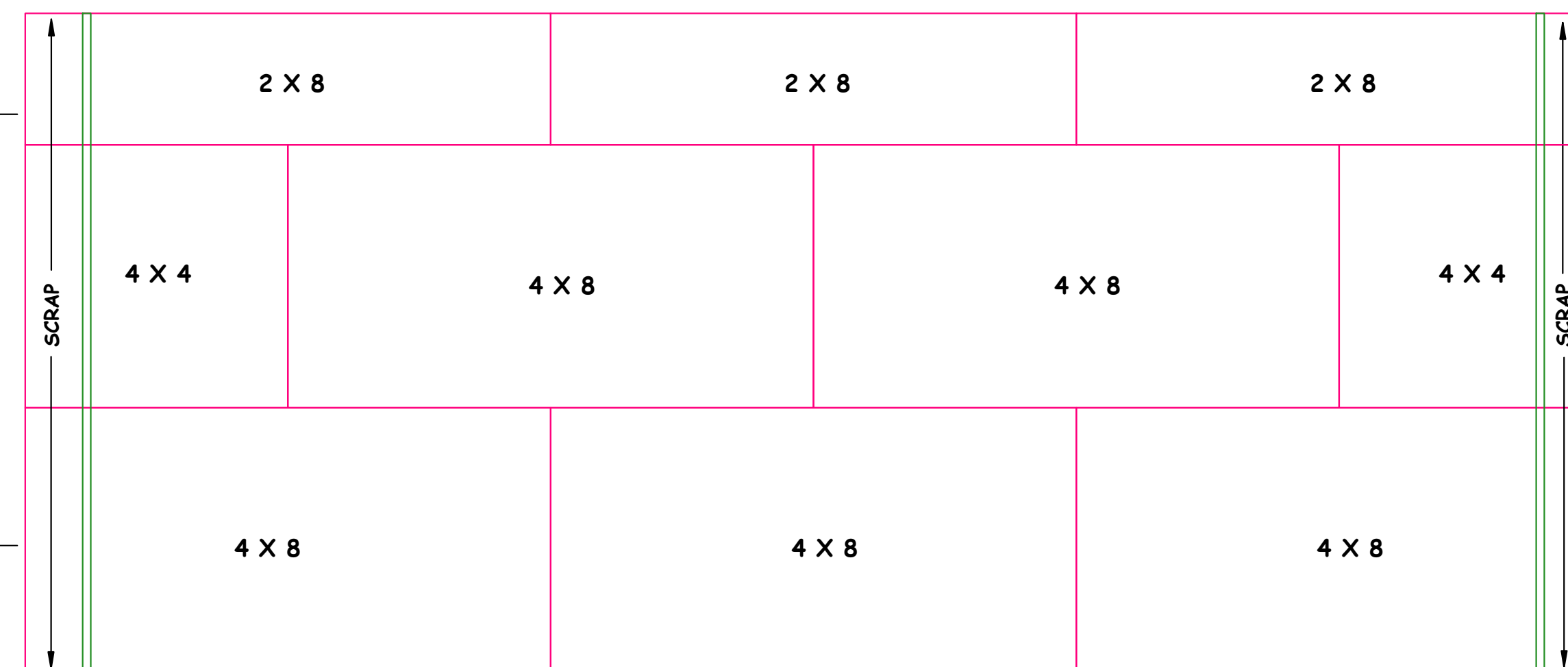
16' X 20' HOUSE: RAFTERS & TRUSSES (SIDE VIEW)



16' X 20' HOUSE: RAFTERS & TRUSSES (TOP DOWN VIEW)



16' X 20' HOUSE: ROOF SHEETING



DIAGONAL ROOF BRACE

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. NOTE: GABLE WINDOW SHOULD BE POSITIONED ON SIDE OF HOUSE OPPOSITE THE LOFT STAIRS.
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.

NOTE: THERE IS AN ALTERNATE METHOD OF ASSEMBLING THE ROOF STRUCTURE ON THE GROUND, CONTACT THE PROJECT MERCY PROGRAM MANAGER FOR DETAILS.

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 DEGREE 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/RAFTER. 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

PROJECT MERCY

16 FT X 20 FT HOUSE

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SCALE: VARIOUS

SHEET 11

A11

OF 15 SHEETS

ROOF

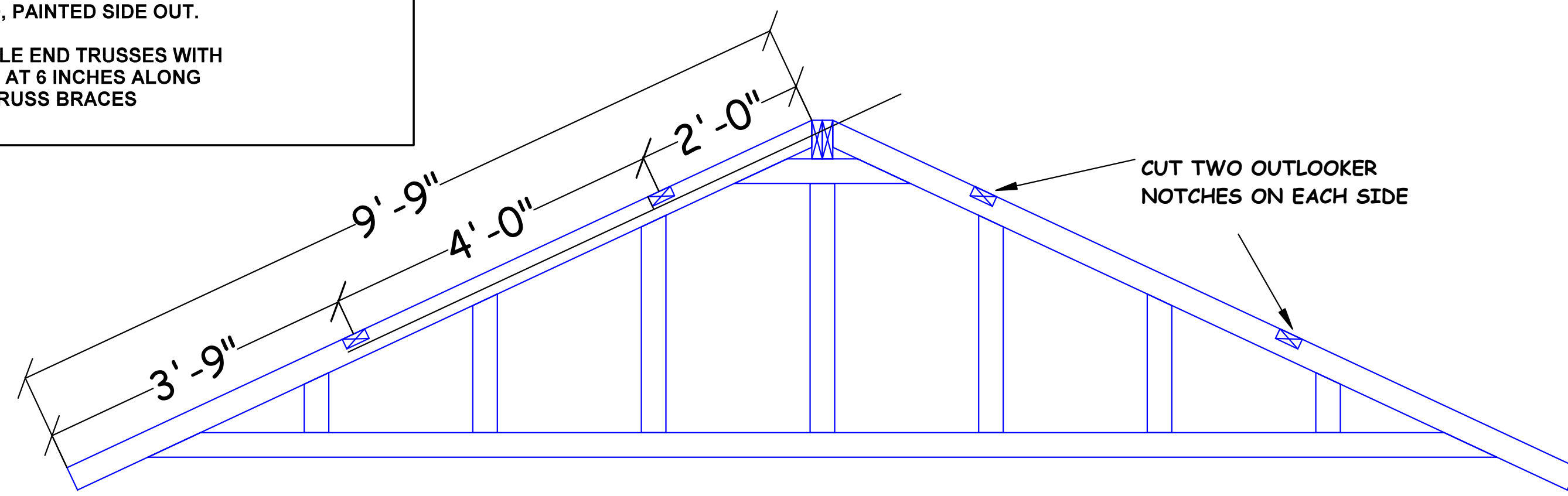
GABLE SHEETING NOTES

- LAY TWO PLYWOOD SHEETS ON TOP OF EACH OTHER AND CAREFULLY ALIGN ALL EDGES. IF ALREADY PAINTED, LAY PAINTED SIDES TOGETHER.
- SET CIRCULAR SAW TABLE TO DEPTH OF TWO SHEETS. CUT BOTH SHEETS TOGETHER TO A LENGTH OF 6 FEET.
- SNAP LAYOUT LINES ON TOP SHEET PER DIAGRAM.
- CUT OUT PATTERN THROUGH BOTH SHEETS.
- CUT A 4" X 1-1/2" NOTCH ON THE LONG END AS SHOWN ON THE DIAGRAM.
- RESULT IN 4 TRIANGULAR PIECES FOR BOTH FRONT AND BACK GABLE ENDS.
- THE REAR GABLE INCLUDES A WINDOW, CUT OUT THE WINDOW OPENING USING THE DIMENSIONS IN THE TRUSS.
- INSTALL TRIANGULAR SHEET ON GABLE END TRUSSES WHILE ON THE GROUND, PAINTED SIDE OUT.
- NAIL PLYWOOD TO GABLE END TRUSSES WITH 8-PENNY NAILS SPACED AT 6 INCHES ALONG EDGES AND VERTICAL TRUSS BRACES

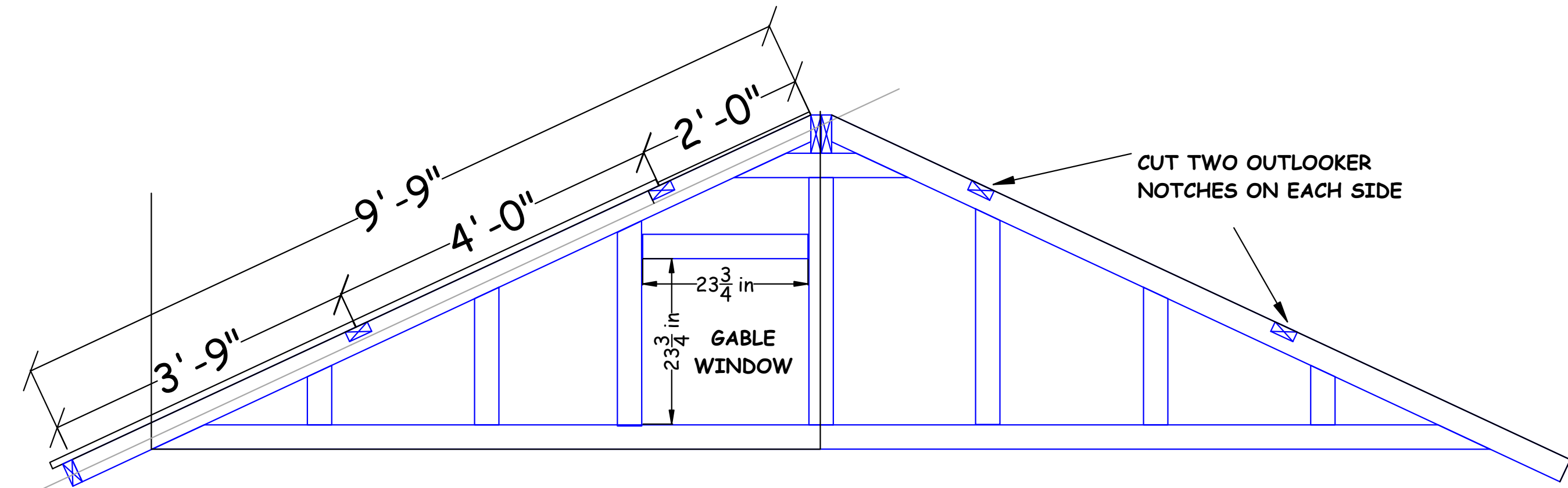
TRUSS FRAMING NOTES

- THERE ARE 2 TRUSSES IN A 20 FT HOUSE, ONE AT EITHER END OF THE BUILDING. IT IS BEST TO SHEET THEM WHILE ON THE GROUND.
- STAND UP, ALIGN, AND TEMPORARILY NAIL THE 2 TRUSSES.
- CUT A 3-1/2" WIDE X 1-1/2" DEEP OUTLOOKER NOTCH AT THE FOUR LOCATIONS SHOWN ON THE DIAGRAM.

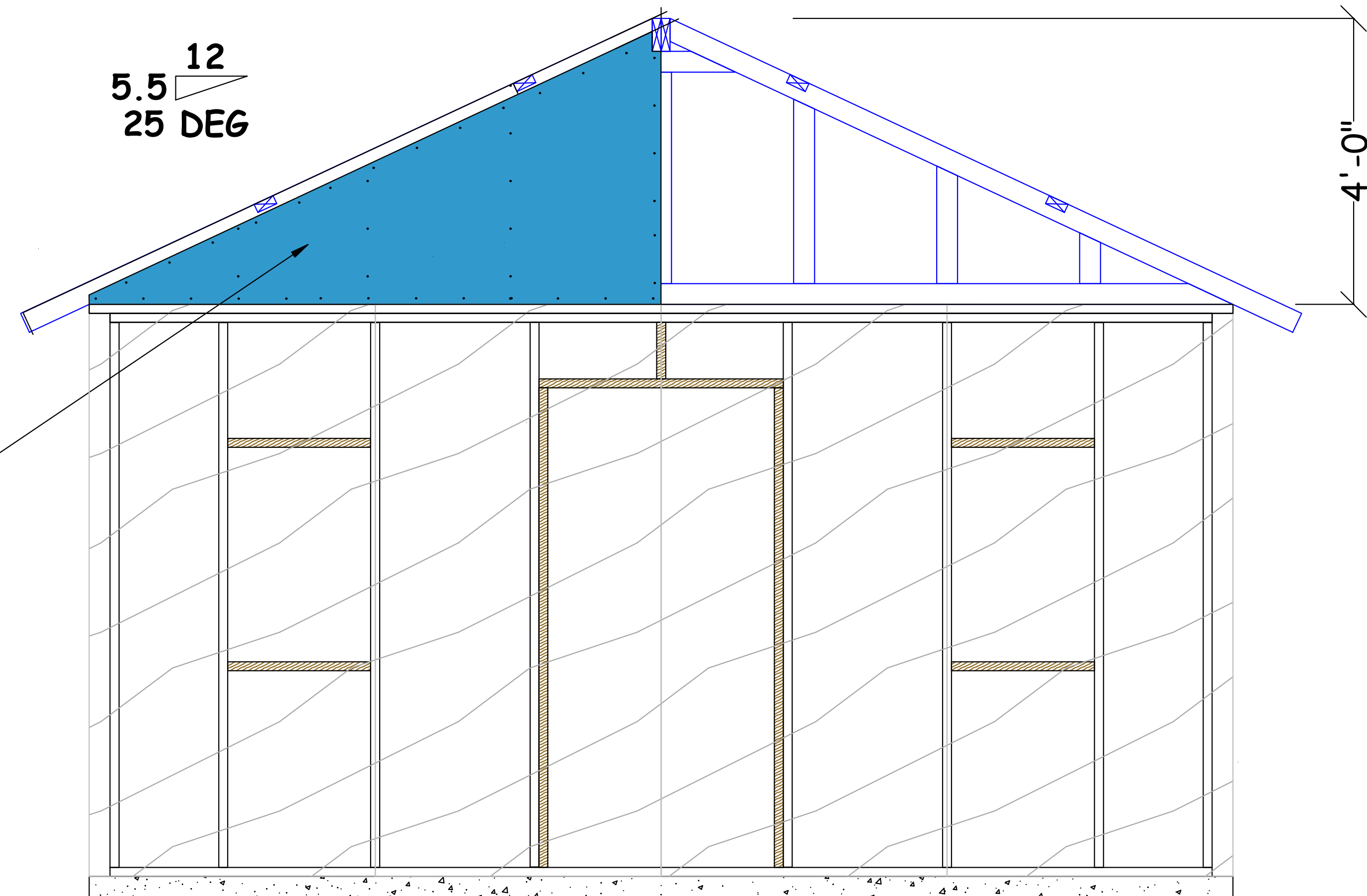
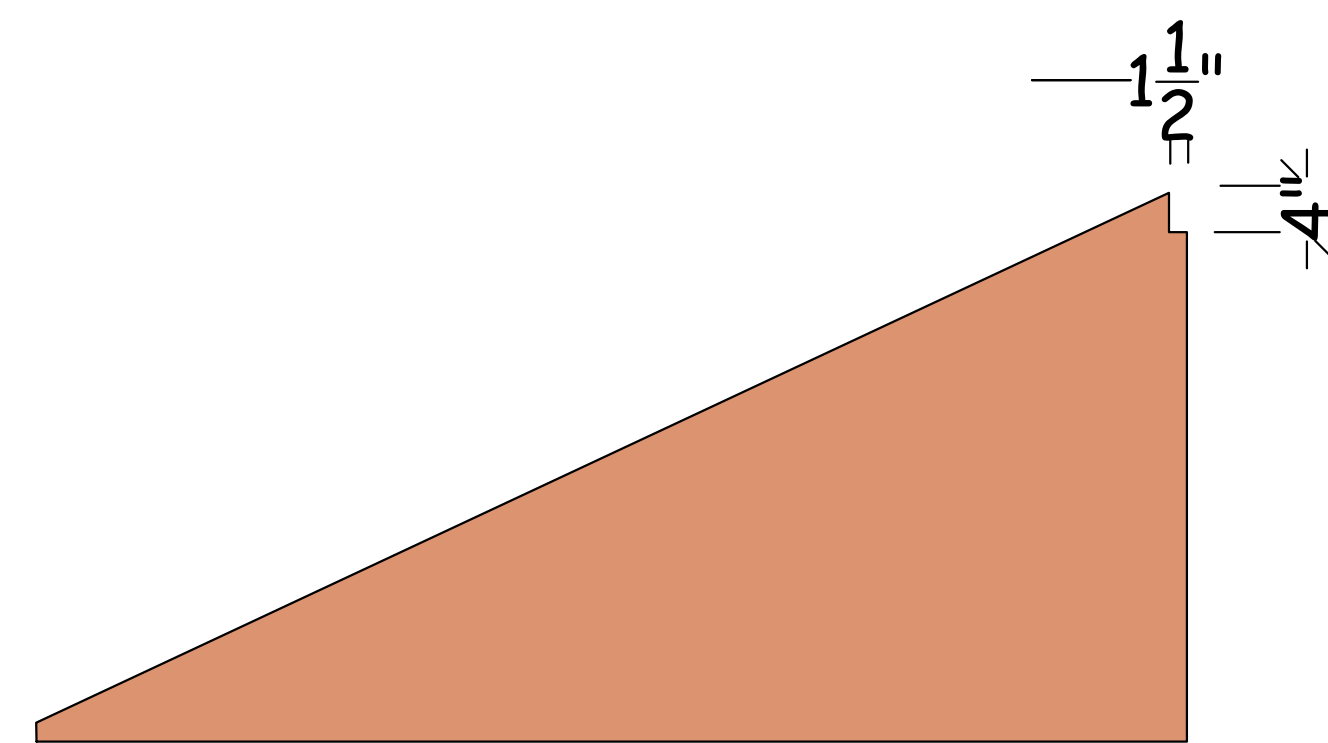
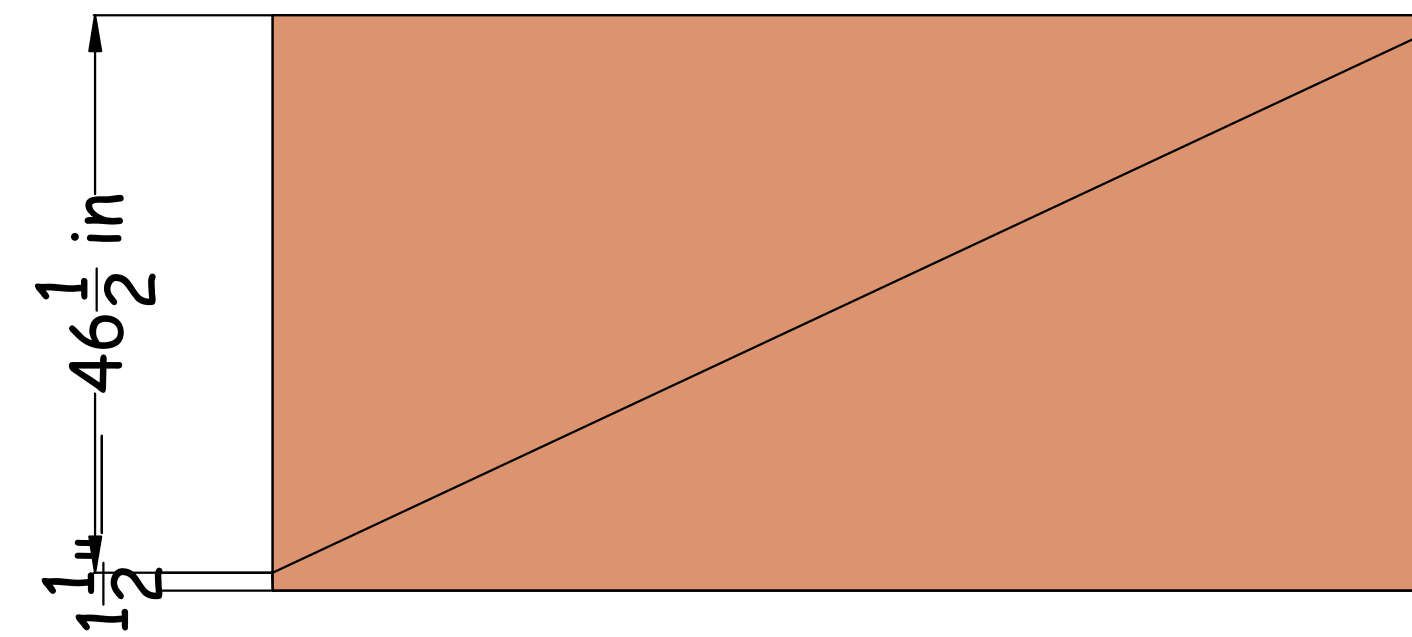
NOTE: TWO MANUFACTURED GABLES ARE PROVIDED AS PART OF THE LUMBER PACKAGE ON-SITE TASKS INCLUDE APPLYING PLYWOOD SHEETING, CUTTING THE OUTLOOKER NOTCHES, AND PAINTING.



16' X 20' HOUSE: GABLE END TRUSS



16' X 20' HOUSE: GABLE END TRUSS



16' X 20' HOUSE: FRONT VIEW

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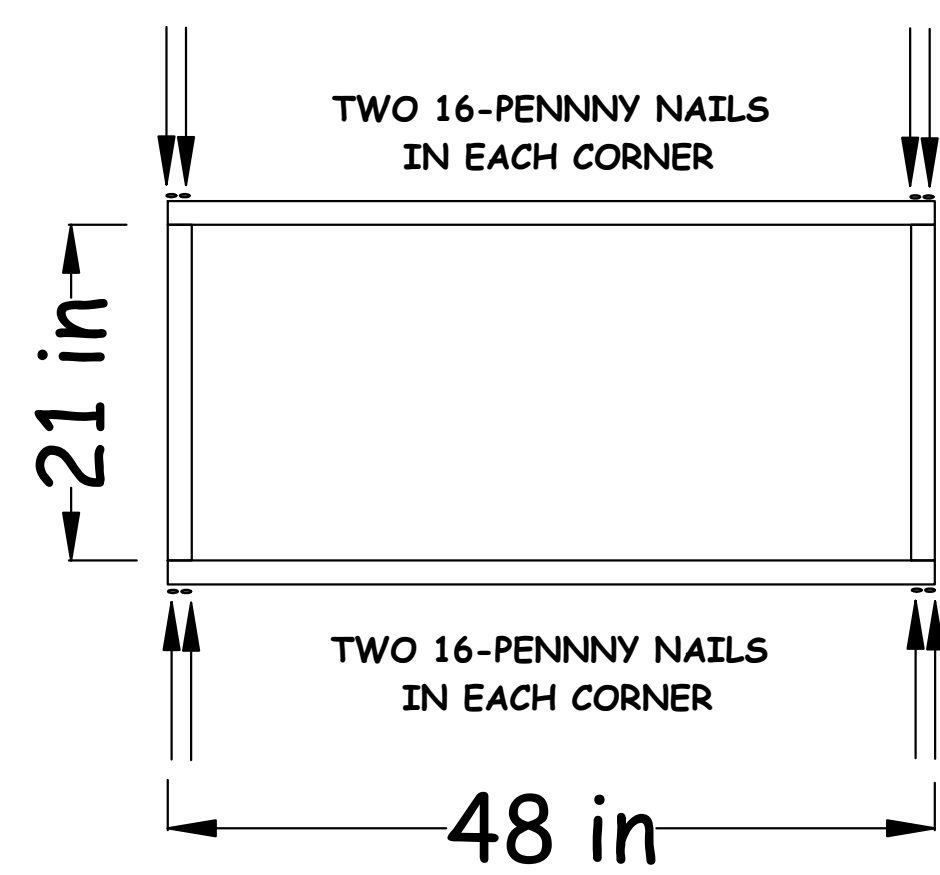
SCALE: VARIOUS

SHEET 12

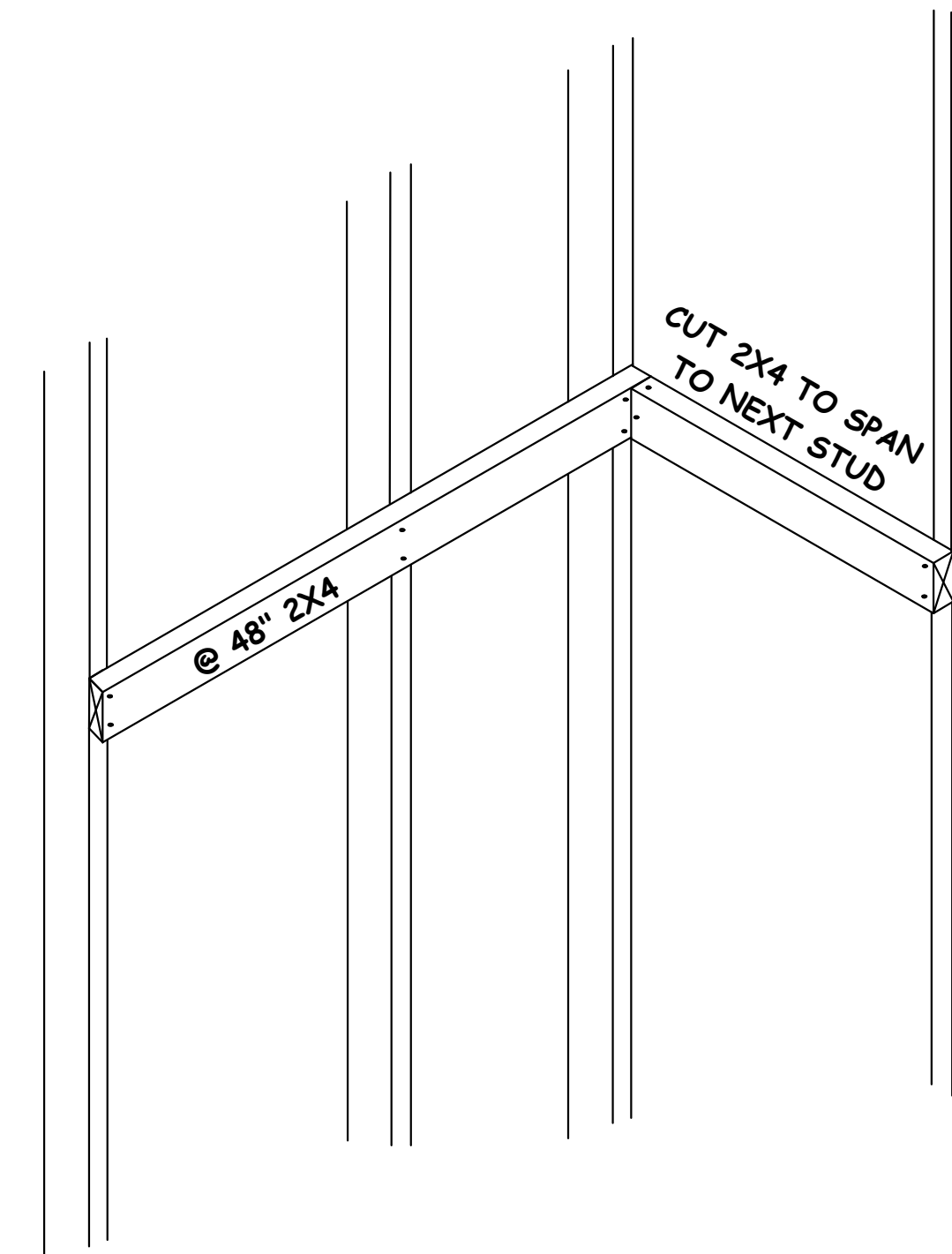
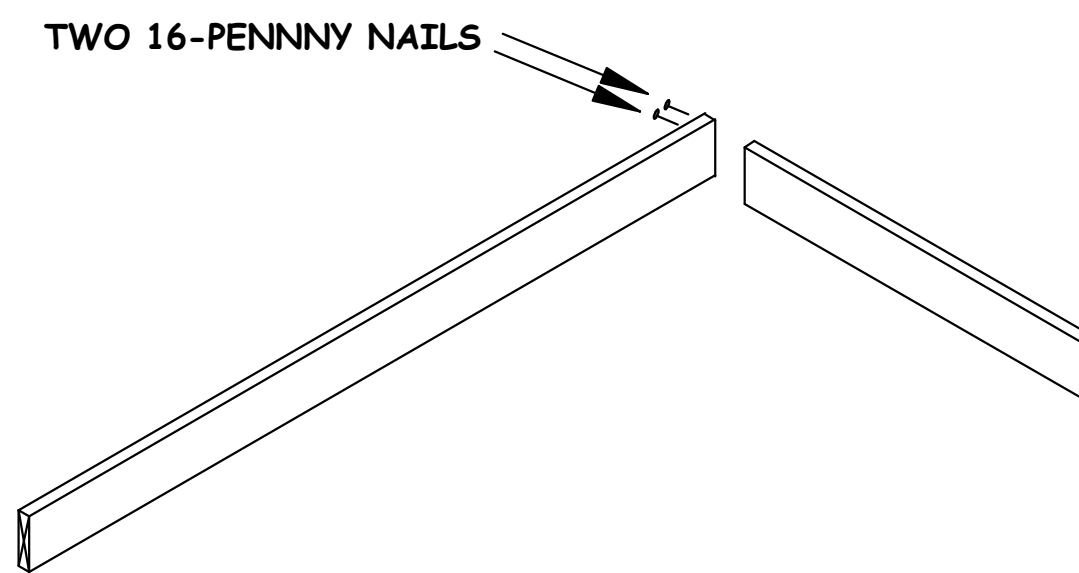
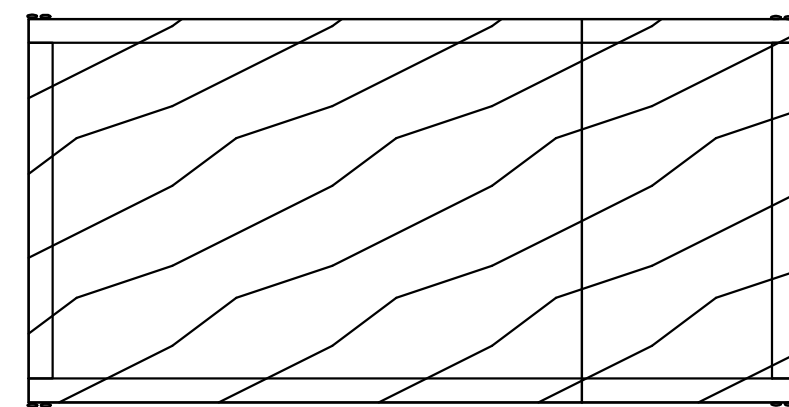
A12

OF 15 SHEETS

TRUSSES



DO NOT CUT FULL SHEET
COVER WITH PIECES OF
SCRAP PLYWOOD



KITCHEN COUNTER NOTES

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.

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DATE: 4/27/2017

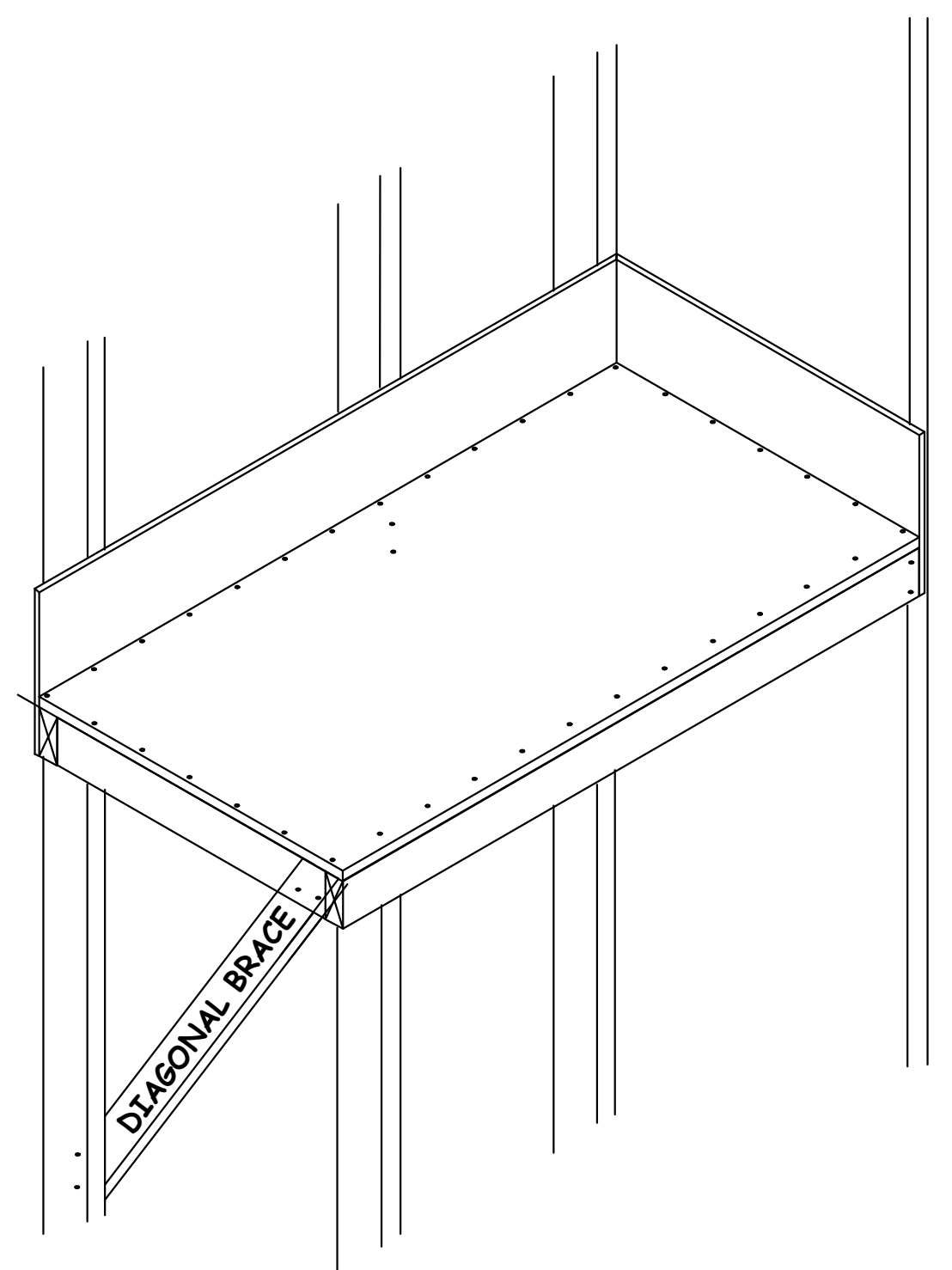
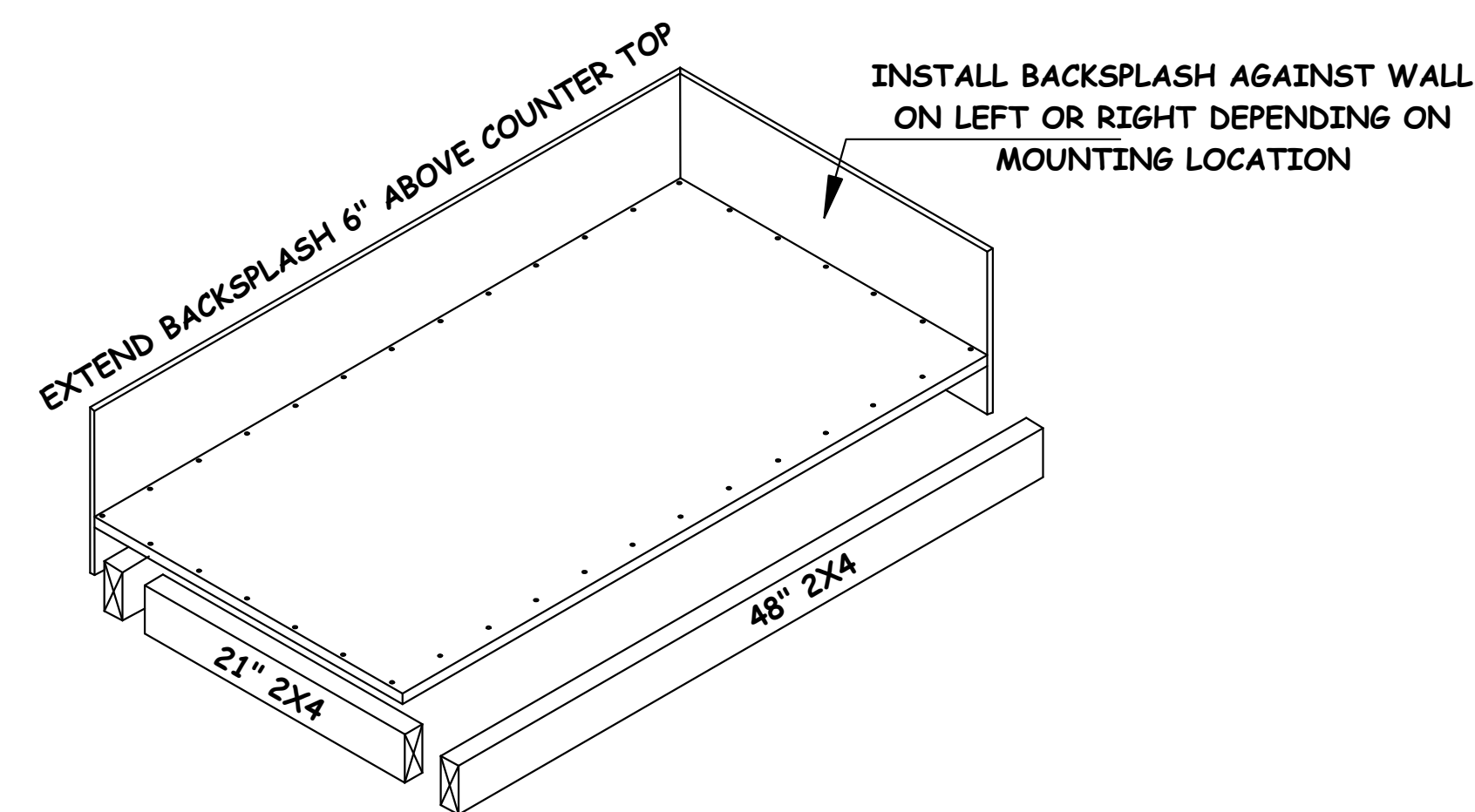
SCALE: 1/4" = 1' 0"

SHEET 13

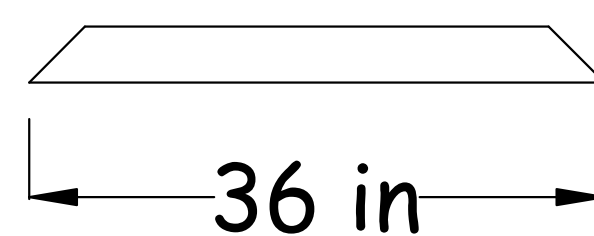
A13

OF 15 SHEETS

LOFT

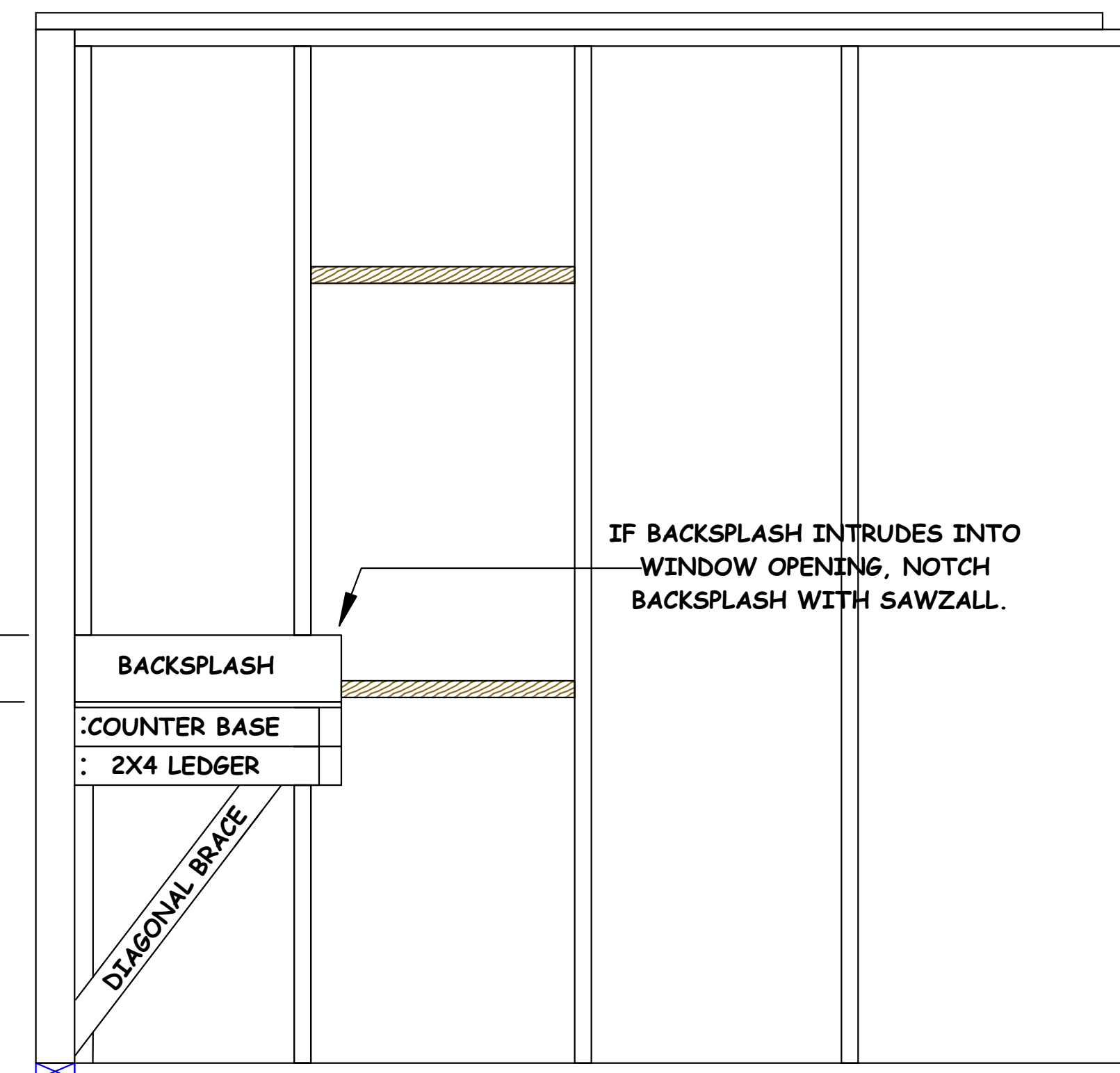


CUT 45 DEGREE ANGLE ON BOTH
ENDS FOR DIAGONAL BRACE



ADJUST LEDGER HEIGHT
DOWN TO ACCOMODATE
SHORTER HOMEOWNER

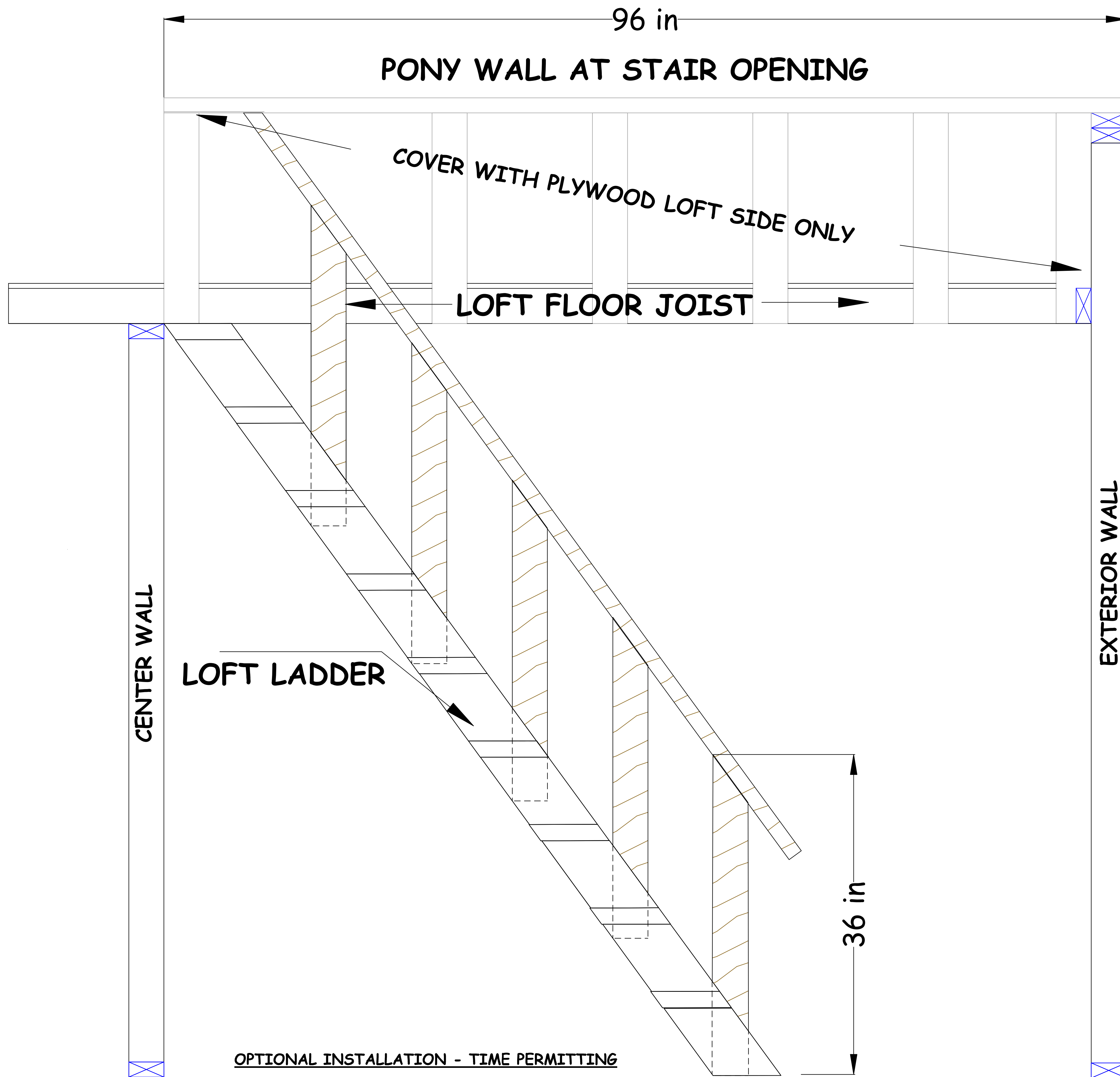
6 in



OPTIONAL INSTALLATION - TIME PERMITTING

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)



LADDER HANDRAIL

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

REVISIONS

PROJECT MERCY

16 FT X 20 FT HOUSE

DRAWN: J. ZAWIS

DATE: 4/27/2017

SCALE: 1/4" = 1' 0"

SHEET 14

A14

OF 15 SHEETS

LOFT PONY WALL

