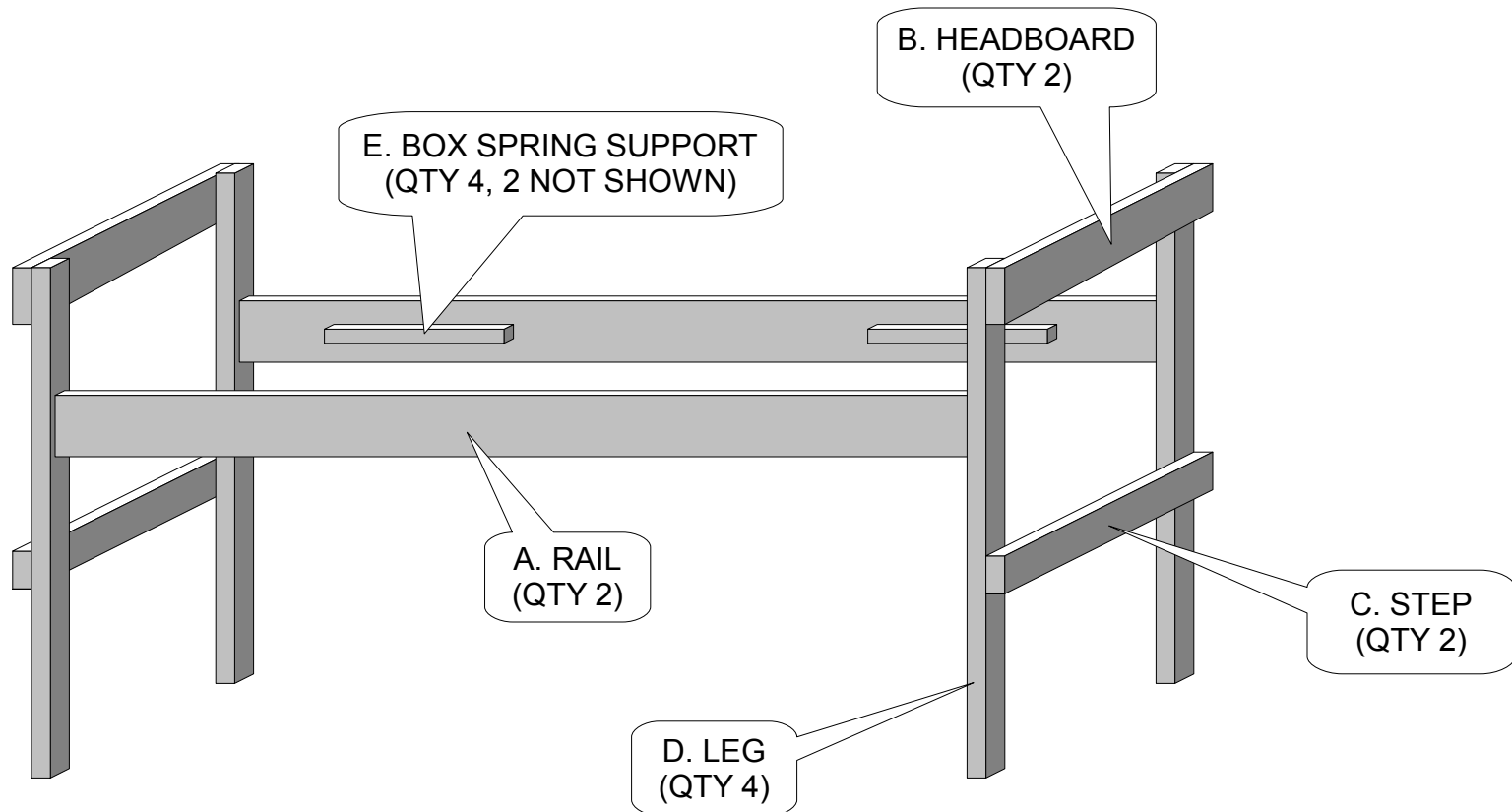


# Build a simple bed frame with minimal tools

Tools needed: Drill, long 3/8" bit, 5/16" bit, 1" spade bit, wrench with 1/2" socket

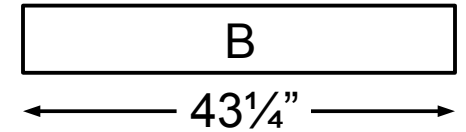
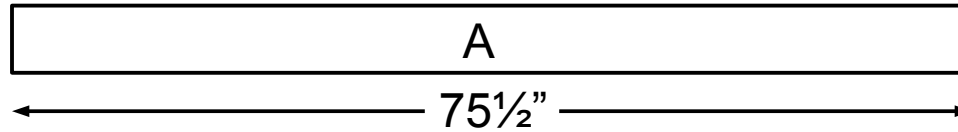


This diagram is NOT drawn to scale. It only shows relative positioning of pieces. See other pages for measurements.

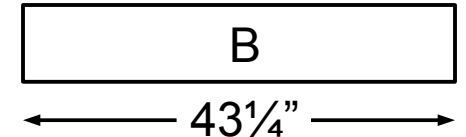
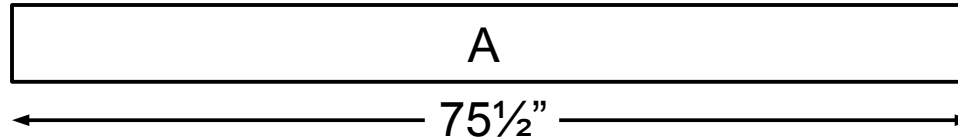
Lumber size

Have it cut to these lengths at the store if you do not have a saw:

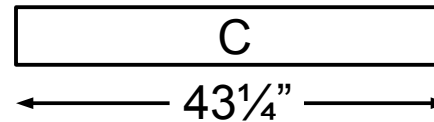
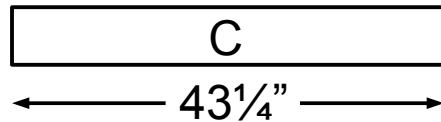
2"x6"x10'



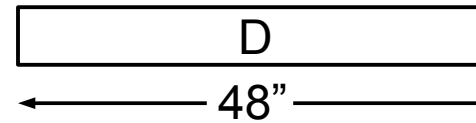
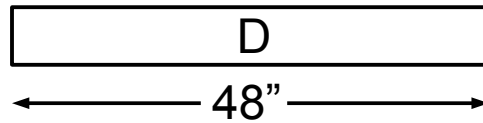
2"x6"x10'



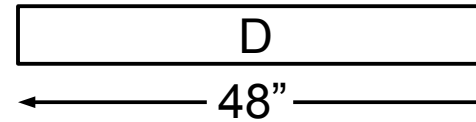
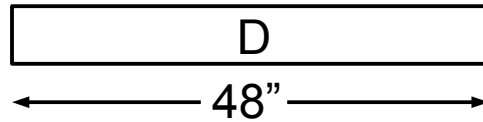
2"x4"x8'



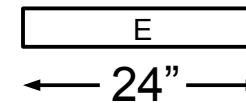
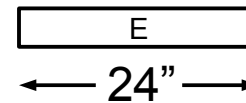
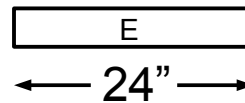
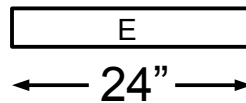
2"x4"x8'



2"x4"x8'



2"x2"x8'



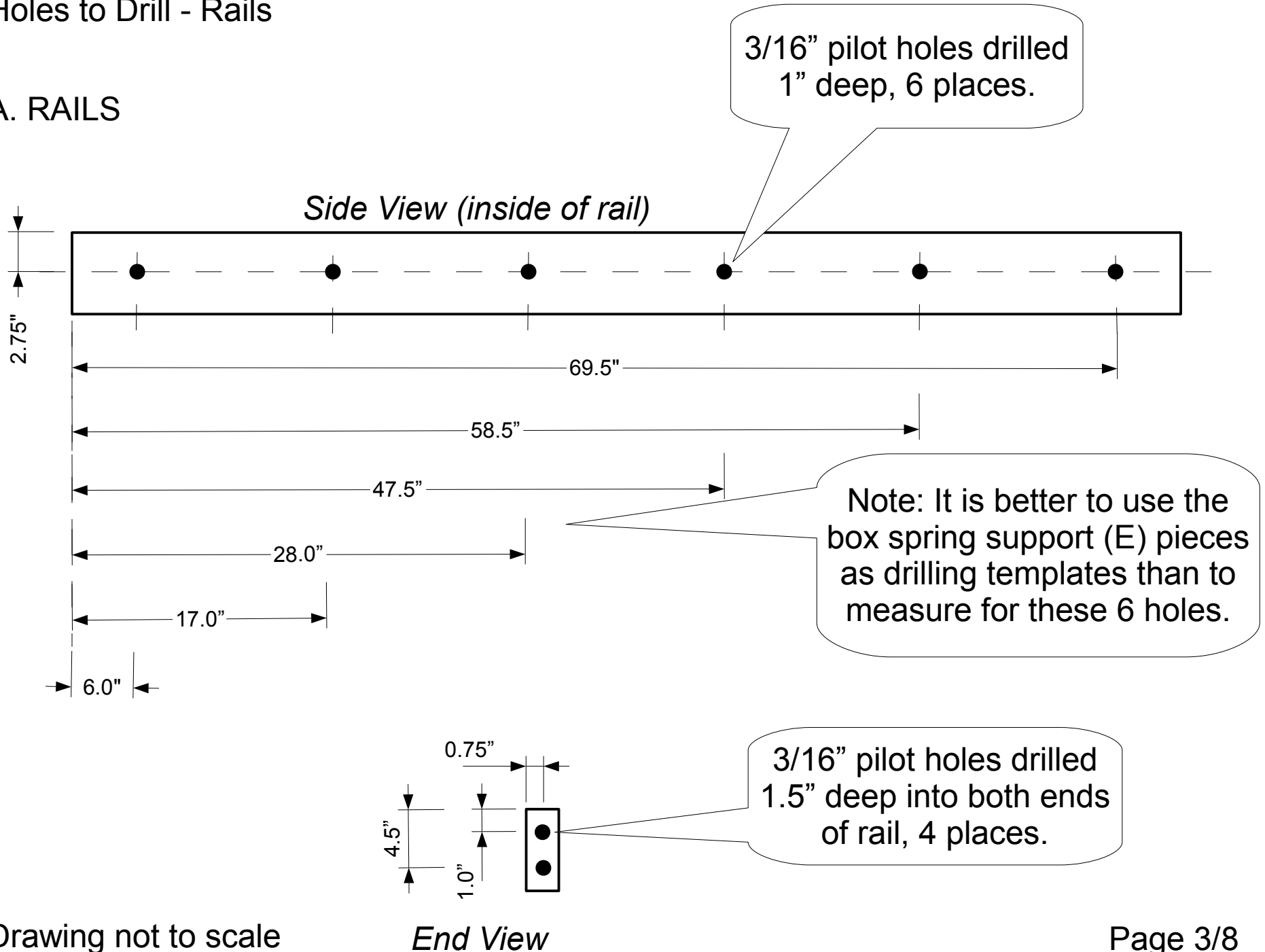
Also buy:

- (8) 5/16" x 3" lag screws
- (28) 5/16" x 2 1/2" lag screws
- (36) 5/16" washers

Note: drawing NOT to scale. Keep waste pieces. The 43 1/4" dimension assumes a single bed mattress.

# Holes to Drill - Rails

## A. RAILS



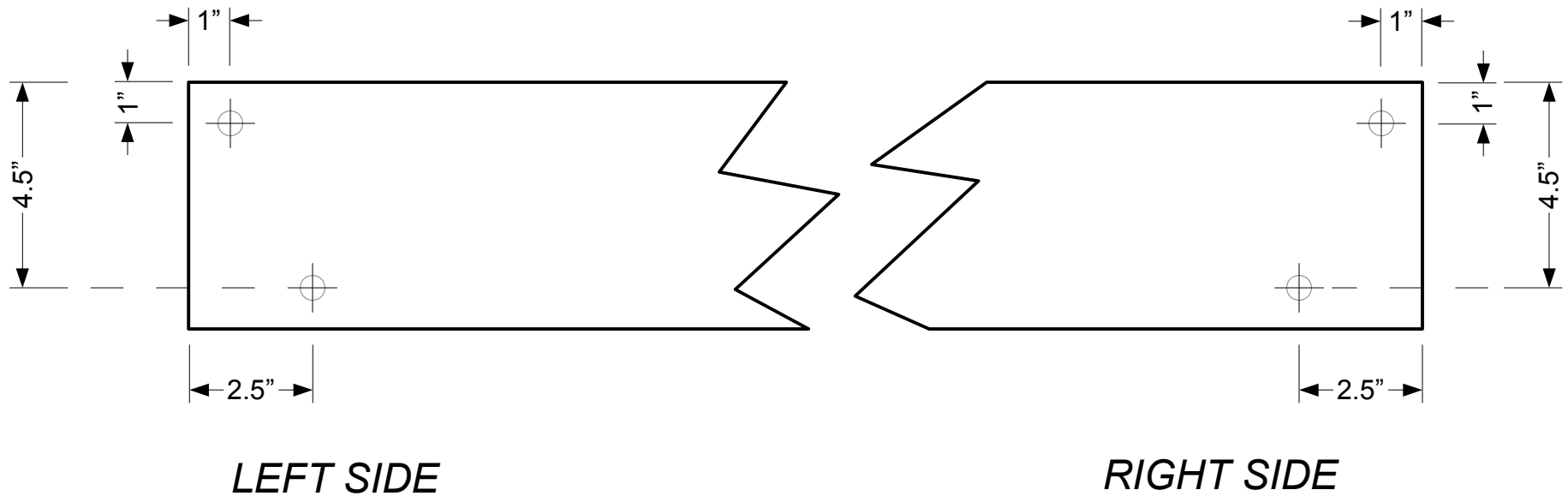
Drawing not to scale

## Holes to Drill – Headboards



1. Drill  $3/16$ " holes through at all locations. The headboards (B) and steps (C) can then be used as a template to locate pilot holes on the legs (D).
2. Use a 1" spade bit on these holes to bore a  $1/4$ " deep countersink.
3. Enlarge the hole by drilling through with a  $5/16$ " bit.

## B. HEADBOARDS



Drawing not to scale

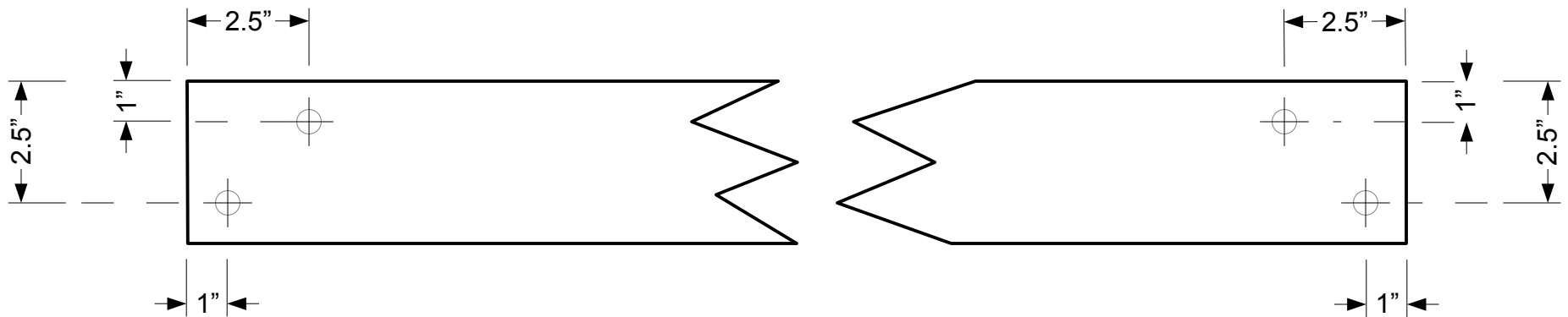
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## Holes to Drill – Steps



1. Drill 3/16" holes through at all locations. The headboards (B) and steps (C) can then be used as a template to locate pilot holes on the legs (D).
2. Use a 1" spade bit on these holes to bore a 1/4" deep countersink.
3. Enlarge the hole by drilling through with a 5/16" bit.

## C. STEPS



*LEFT SIDE*

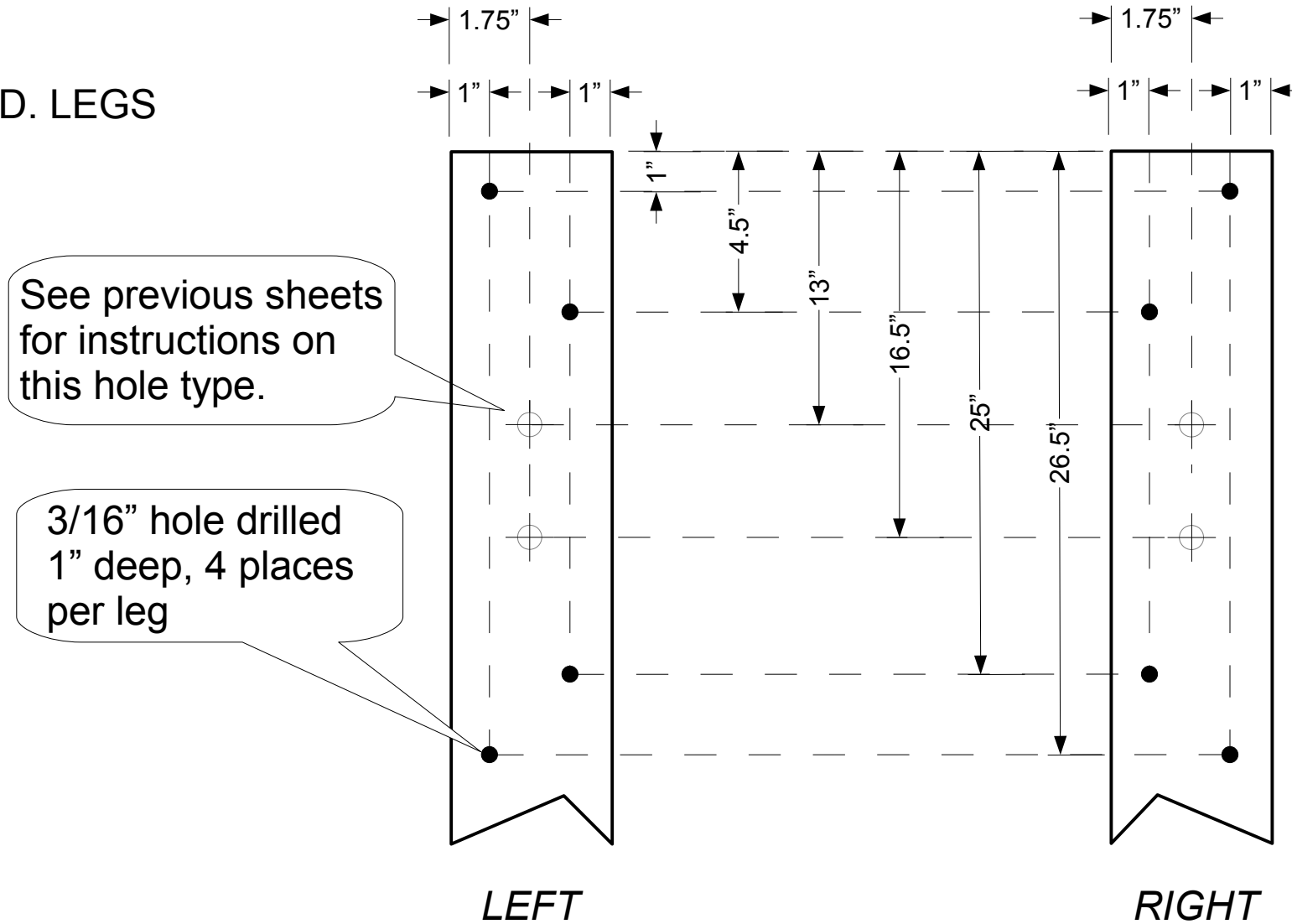
*RIGHT SIDE*

Drawing not to scale

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# Holes to Drill – Legs

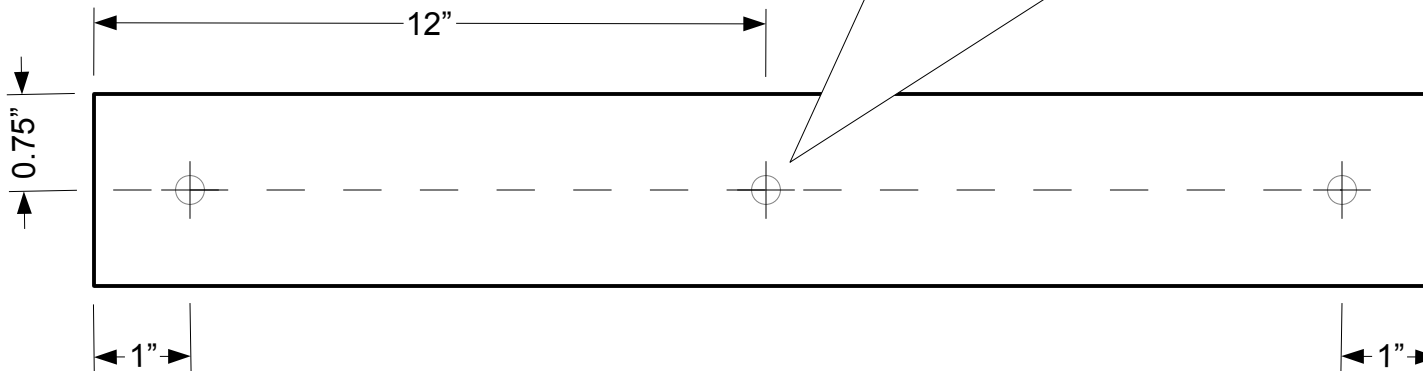
## D. LEGS



## Holes to Drill – Box Spring Supports

### E. BOX SPRING SUPPORTS

1. Drill  $3/16$ " holes through.  
The box spring supports (E) can then be used as a template to locate pilot holes on the rails (A).
2. Use a 1" spade bit on these holes to bore a  $1/4$ " deep countersink.
3. Enlarge the hole by drilling through with a  $5/16$ " bit.



## Notes

2x6 rails provide enough stiffness for the frame without the need for a diagonal brace. Use the 3" lag screws to support the rails; 2½" lag screws to hold all other pieces.

The step is for a nimble person to use to get into this high bed. A ladder could be added, but the step is still necessary as a brace.

Legs can be made shorter without issue. The design might need better bracing with longer legs.

The dimensions of this design are for a single bed box spring, and would need to be adjusted for other sizes. If only a mattress is used, then slats must be added. That goes beyond the scope of this project.

A railing could be added if the person is likely to roll out of bed.

Although optional, it's nice to sand the entire frame smooth, and put several coats of polyurethane finish on it. Felt pads could also be put on the bottom of the legs, if the bed will be on a wooden floor.

No claims are made about the safety of this design. Build and use it at your own risk.

More info: Roderick Young, <http://pididu.com>