

Construction Trades Virtual Learning **Project Book 2 Lesson 29** May 14, 2020



Construction Trades Lesson 19: April 30, 2020

Objective/Learning Target:

What You Will Know

How to gather materials, lay-out, gather tools for and build a curved picnic table

Building a Garden Tool Shed

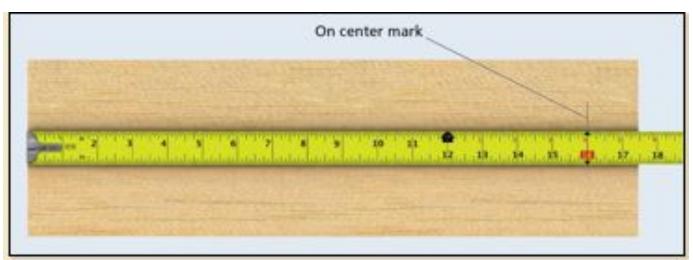
What skills and tools do you think we will use to build the garden tool shed?



What's New

On-Center Layout

- Framing parts are space at regular layouts 16" on-center (O.C)
- One end of the board to the center of the framing parts is 16"



Sinker

- Funnel-shaped head with a grid pattern.
- Coated with an adhesive

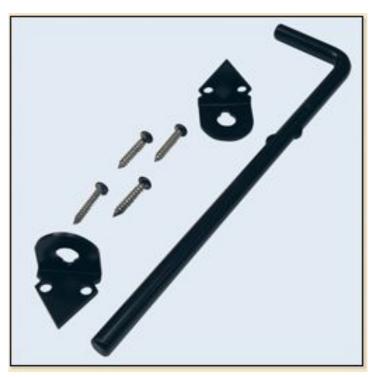
Galvanized Nails

- Coated with zinc



Cane Bolt

- L-shaped door hardware
- Vertical locking device that secures a door by sliding into a recess in the floor.



Hasp

- Hinged metal device with a slot to accept a bolt.



Floor Framing

Floor Joists

-Horizontal framing members that support the sheathing

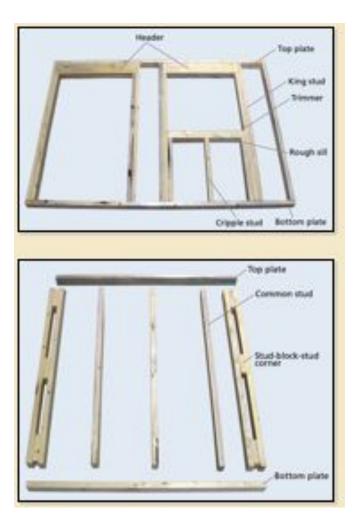
Rim Joist

-Nailed along the end of floor joists to prevent them from twisting



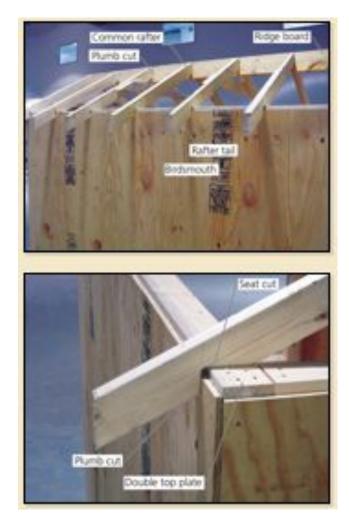
Wall Framing

- -Common studs
- -King studs
- -Trimmers
- -Cripple studs
- -Stud-block-stud corner
- -Plates
- -Headers
- -Sills



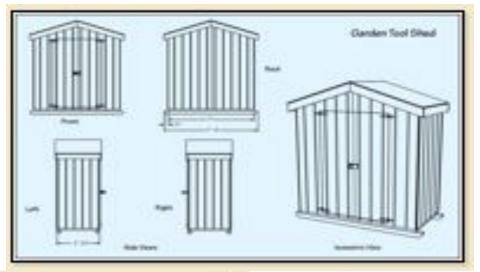
Roof Framing

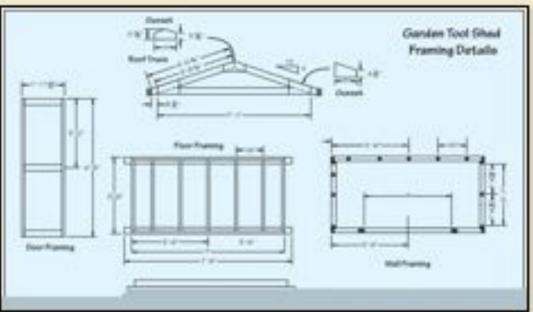
- -Common rafter
- -Ridge board
- -Plumb Cut
- -Birdsmouth
- -Seat Cut
- -Rafter tail



Cut List

-How many pieces should be on your cut list?





Procedure - Build the Floor System and Skids

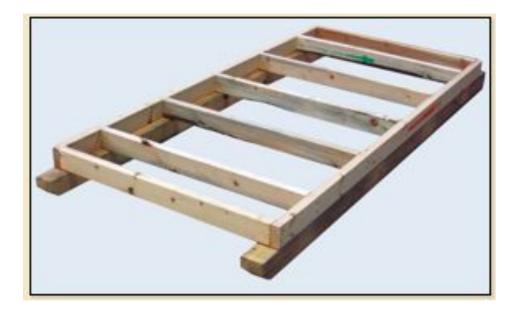
-Step 1 - Cut two 4 x 4 x 7'-8" skids and bevel both ends.

Tip Due to the thickness of the 4 x 4, it will have to be cut from 2 sides



Procedure - Build the Floor System and Skids cont.

-Center the floor system framing on the 4 x 4 skids, aligning the outside face of the rim joists with the outside face of the skids.



Procedure - Build the Floor System and Skids cont.

Fasten the plywood onto the floor joist system with 6d hot-dipped galvanized nails, aligning the edges of the plywood to the edges of the floor system.



Procedure - Build the Rear Wall

-Measure 6'-10" from the bottom of the siding along each cut end of the wall and place a mark.

-Mark a line from the marks through the center point of the top edge of the siding.



Procedure - Build the Front Wall

-Snap a line through the marks made in steps 9 and 13.

Tip The distance between the two door cut lines should be equal top and bottom.



Procedure - Build the Front Wall cont.

-Cut the door panels by making a saw cut through the overlap of both sheets of siding, from the bottom of the sheets to the top door cut line, both door side cut lines, and across the top cut line.



Procedure - Build the End Walls.

-Center the siding panels on the wall frames side to side while aligning the op edges with the top plates and fasten.

Tip

Be certain that the

distance from the

edge of the siding



panel to the side of the end studs is equal at the top, center and bottom of the stud.

Procedure - Attach the Walls to the Floor System

-Stand the rear wall o the floor system, aligning the ends of the wal with the ends of the floor system, and temporarily support it.

-Press the bottom edge of the wall panel against the rim joist and fasten the siding to the rim joist.



Procedure - Cut and Assemble the Roof Trusses.

-Fasten the ridge gusset and bottom chord gussets to the truss.

Tip

Trace the outline of the first truss on the work surface to use as a guide when assembling the remaining trusses.



Procedure - Cut and Assemble the Roof Trusses

-Nail 16d c.c.sinkers through the end stud of the end wall into the end stud of the rear wall, while maintain contact of the siding of the end wall with the end stud orf th rear wall.

-Nail the edge of the overlapping siding to the end stud of the rear wall.



Procedure - Set the Trusses and Fly Rafters

-Center th third truss on the end walls and use a straightedge placed against the tails of the front and rear trusses to align the tail of the enter truss. Tack the third truss to the temporary spreader.



Procedure - Set the Trusses and Fly Rafters cont.

-Fasten sub fascia boards to the top chord tails on each side of the truss.

-Position one fly rafter against the back side of the sub fascia and against the underside of the temporary spreader.



Procedure - Make and Install the Doors

-Adjust the door to maintain a $\frac{1}{8}$ " margin on the hinge side and a $\frac{1}{8}$ " margin at the top

Tip

The ¼" shim placed on ther floor may require adjusting to maintain the desired clearance at the top of the door.



Procedure - Make and Install the Doors cont.

-Center and install the hasp.

-Drill a hole for the cane bolt and install.



Garden Tool Shed Conclusion

