

Vineyard Pergola

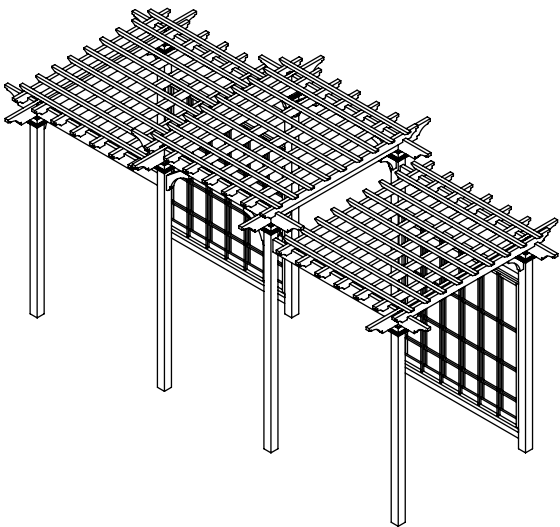
MATERIAL LIST

10	2"x6" x 8'
8	4"x4" x 12'
27	2"x4" x 8'
9	1"x6" x 6'
1	5/4"x6"x 12'
1	2"x8" x 8'
1	5/4"x6" x 8'
3'	1/2" Mahogany Dowel
27	2"x2" x 8'
12	bags of concrete mix.

1lb	3" spiral galvanized finish nails
2lb	1¼" spiral galvanized finish nails
5lb	3" Deck Screws (rated for red cedar)
5lb	2½" Deck Screws (rated for red cedar)
	(or 15 guage finishing brads or 2½"
	Spiral Galvanized Finish Nails)

**Consider using a 3/8" pilot with a countersink, then filling the screw holes with solid wood cut using a drill press and a tapered plug cutter.*

***Consider pre-finishing your Red Cedar Prior to assembly.*



INSTRUCTIONS

A. Shop for, gather and organize the materials.

B. Prefabricate the parts as required and stack like parts together. It may be prudent to leave parts slightly long and trim to fit once measurements are confirmed.

C. Layout and dig the minimum 42" deep x 10" holes using a lever augur or power augur—or better still, hire someone that specializes in digging post holes. Double check the locations after the posts are set and adjust part sizes upward if necessary.

D. Always place posts on 2-shovels of concrete. Set the outermost posts first and confirm square by measuring diagonally with solid blocks between the end posts. Conversely you could put up batter boards that are offset 1/2" from the final post locations. Once the 4 corner posts are set as near to square as possible, attach a string line offset 1/2" to the corner posts on the long sides. Level and align your posts to maintain them in a straight line as you set in concrete. Backfill with dirt or gravel immediately. You don't have to brace the posts if you pack the soil or fine gravel tightly with your foot.

E. After allowing the posts to set for 24-48 hours, cut and fit the Support Rails and fasten to the posts using fence clips and roofing nails. The Support Rails should be 3" off the ground and level to one another. Add a 3¼" Galvanized finish nail on the diagonal to secure the support rails securely. Fit the Base Rails and Top Rails between the posts but do not fasten.

F. Assemble the screens as illustrated. Cut blocks to help you space the parts quickly and accurately while you secure the lattice. Fasten the Top and Base rails to the top and bottom of the lattice screen using the 3" Galvanized Finish Nails into the 1x lower rail and

upper rail. Fasten the rails to the posts using pocket hole jig and #12 Stainless Screws. Fasten to the support rail using 3" Deck Screws.

G. Trim the posts to height illustrated or slightly shorter if posts are too short due to grade. The top of posts should be level to one another in each of the 3 roof sections. Assemble the Post Caps as illustrated and install with 3 ¼" Spiral Galvanized Nails. Fasten the Rafters to the caps using a 3" Deck Screw at each connection. (you may use exterior suitable waterproof adhesive on the dowel to reinforce).

H. Space Rafters on Beams to spacing illustrated and secure with 3" deck screws or 3¼" Spiral Galvanized Spikes. Countersink all screws and nails.

I. Cut and Install the spanners to lock the rafters in place. Again, use a solid block to place them quickly.

J. Cut out Braces from off-cut 2x6 beam and 2x4 rafter materials. Fasten between posts and beams with 3" deck screws or #12 Stainless Screws.

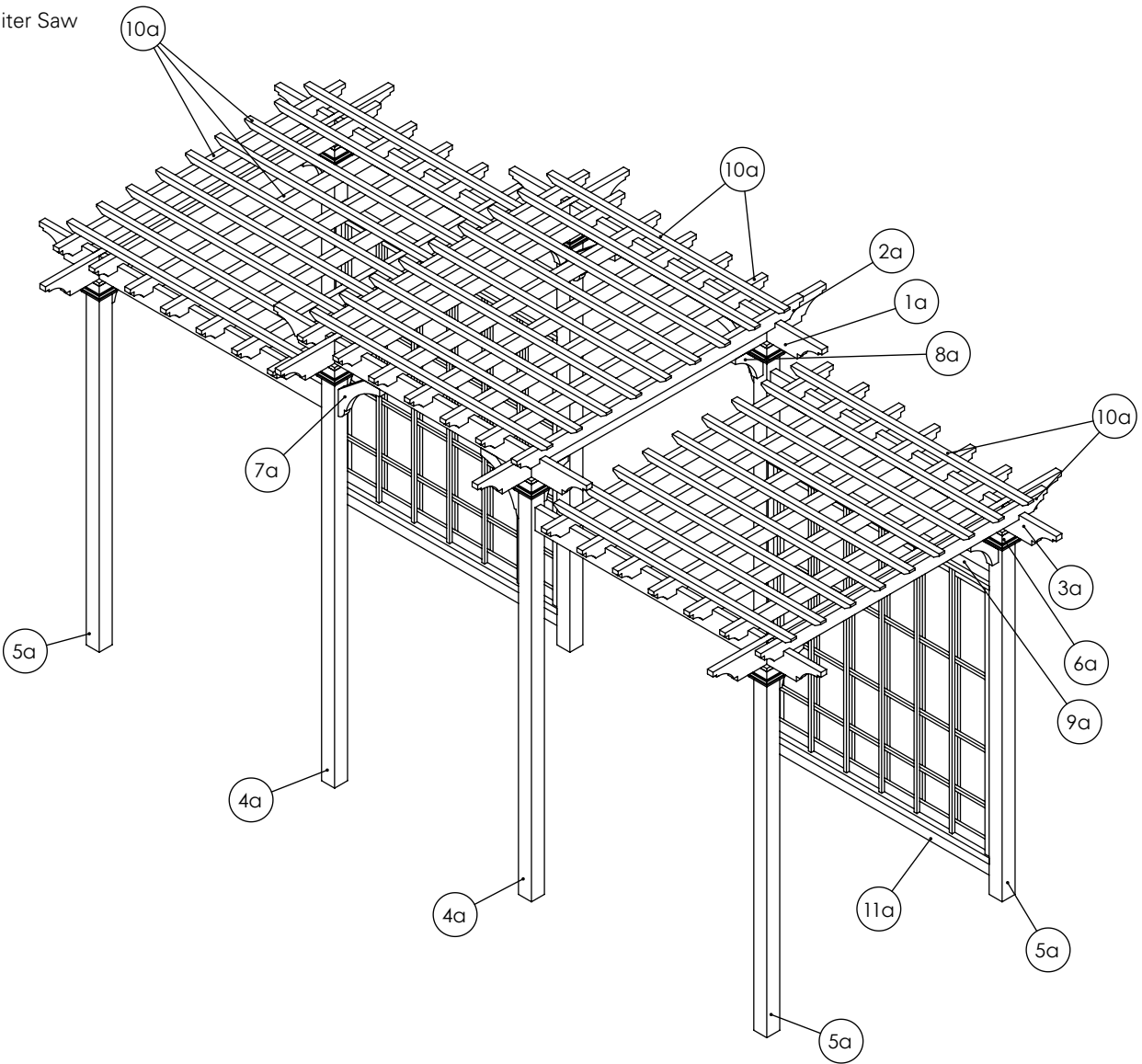
K. Give your project a coat of stain, then fill any voids or holes with exterior putty. Give it a second coat after putty.

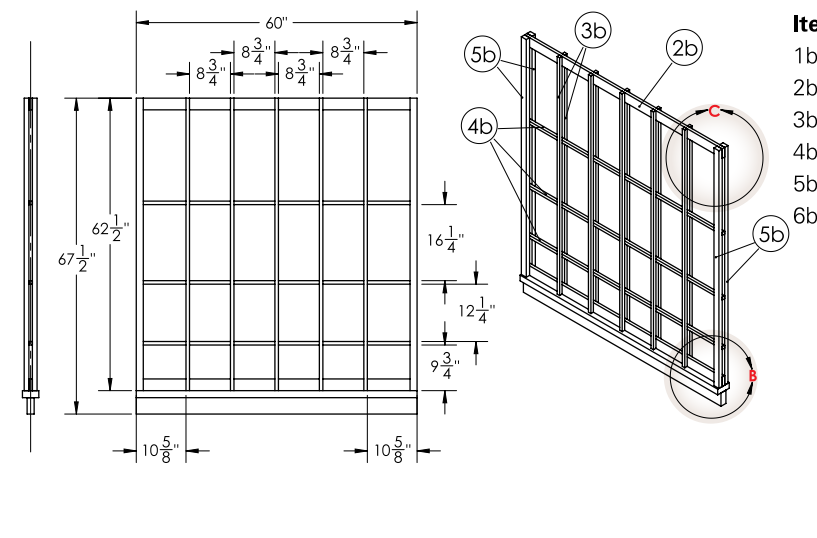
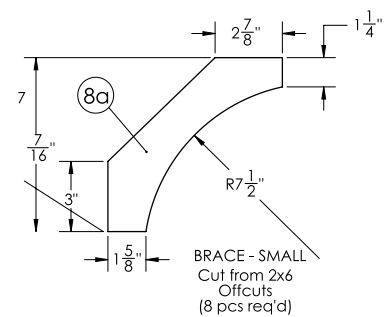
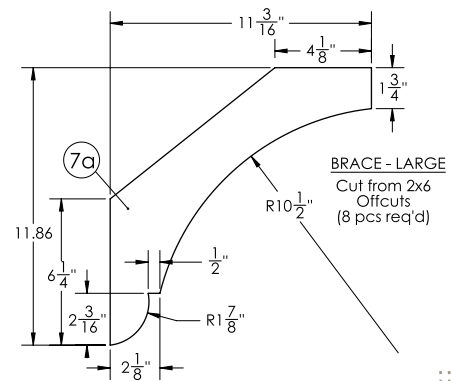
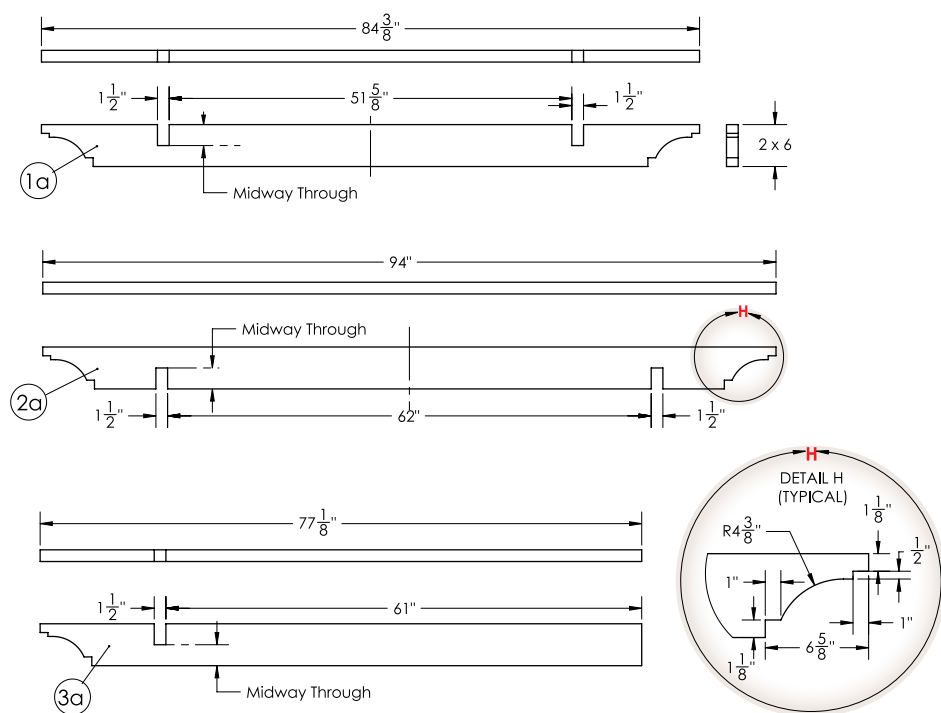
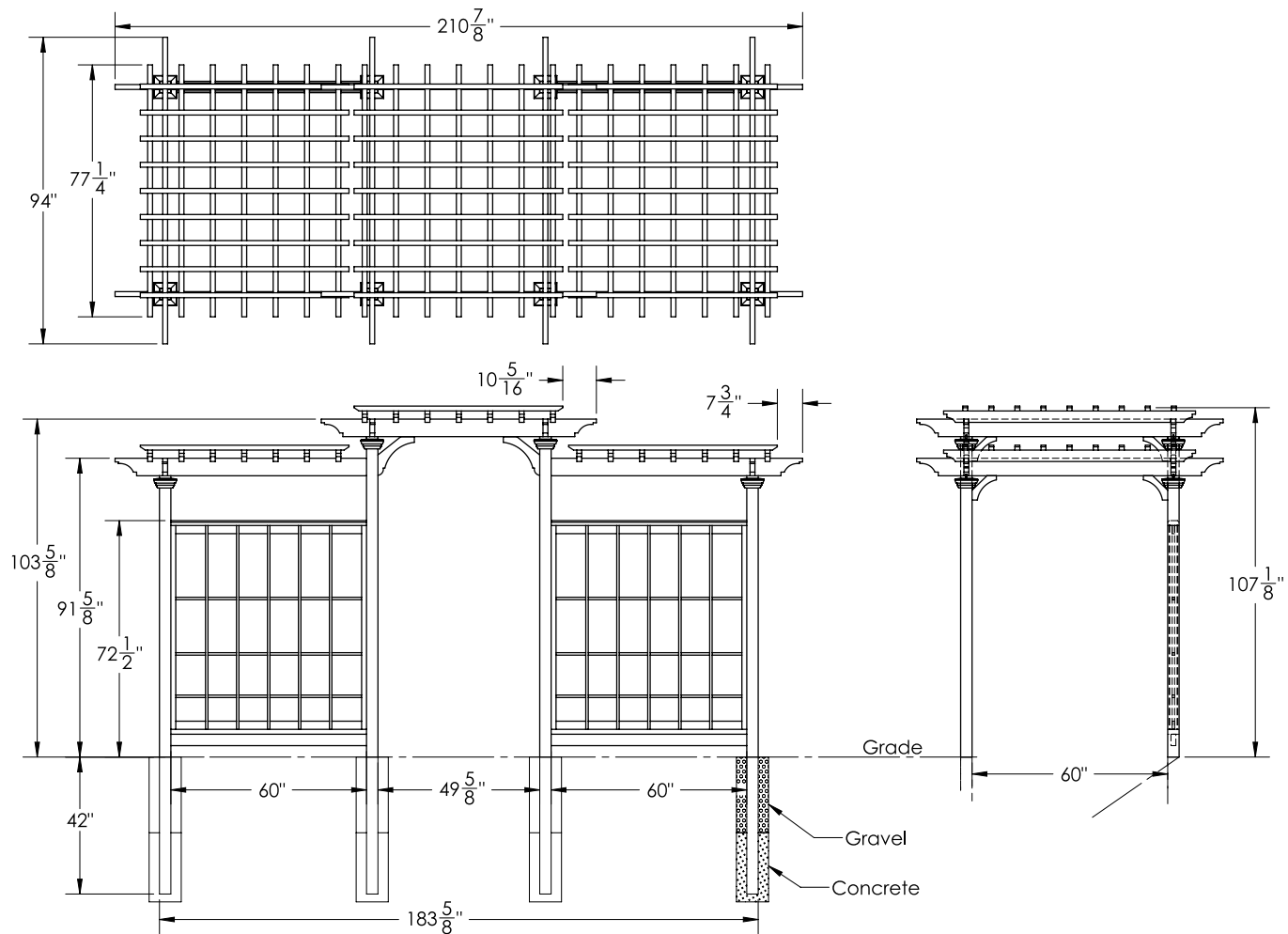
Plan designed by Garden Structure (www.gardenstructure.com). It is an artist's conception and is intended as general reference only. The Western Red Cedar Lumber Association does not warrant the accuracy of the information herein. Always follow local and national building codes.

RECOMMENDED TOOLS

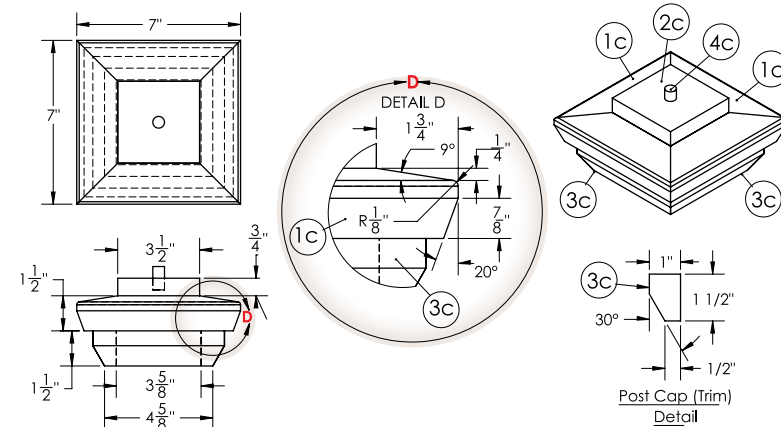
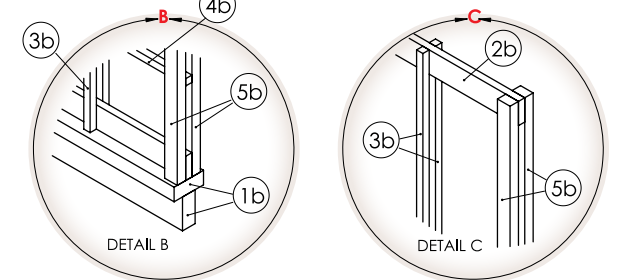
- 4 small off-cuts of 2x2 (spacer blocks)
- Drill and 3/8" spade bit or augur bit
- Screw driver bits and magnetic tip for screw gun
- Carpentry clamps (4) optional
- Framing Square
- Pocket Hole Jig and #12 Pan Head Stainless Wood Screws
- Adjustable wrench or socket set
- 3/8" Countersink and Pilot bit
- and Tapered Plug Cutter (to fill countersinks)
- Random orbital sander with 80 grit sandpaper.
- Jigsaw with heavy duty blades
- Small Drill Press (optional)
- Flush Cut Saw
- Table Saw
- Wheelbarrow, Shovel, Rake, Lever Augur
- An Accurate Level
- Power Miter Saw

Item No.	Description	Material	Qty.
1a	Centre Beam (84 3/8")	2"x6"	2
2a	Centre Crossbeam(94")	2"x6"	4
3a	Centre Half Beams (53 1/8")	2"x6"	4
4a	4"x4" Posts (Long)	4"x4"	4
5a	4"x4" posts (Short)	4"x4"	4
6a	Post Cap	Diagram vi	8
7a	Brace - Large	Offcuts	4
8a	Brace - Small	Offcuts	8
9a	Top Rail	2"x4"	2
10a	Upper Rafter Assy	Diagram vii	3
11a	Side Panel Assy	Diagram v	2





Item No.	Description	Material	Qty.
1b	Support Rail	2"x4"	2
2b	Upper & Lower Rails	3/4"x2 1/4"	2
3b	Vertical Lattice	3/4"x3/4" (cut from 1x6)	10
4b	Horizontal Lattice	3/4"x3/4" (cut from 1x6)	3
5b	Split Rails	5/4"x6"	4
6b	3" Spiral Nails Galvanized		



Item No.	Description	Material	Qty.
1c	Post Cap (Cap)	7"x7"x 1 1/2" (cut from 2"x"8)	1
2c	Post Cap (Top Piece)	3 1/2" x 3 1/2" x 3/4" (cut from 1x6)	1
3c	Post Cap (Trim)	1 1/2" x 1" (cut from offcuts)	4
4c	1/2" Hardwood Dowel	Purchased	1

NOTES:
1) TYPICAL FOR 8
2) DRILL 1/2" HOLE CENTRLY IN TOP PIEC, FOR DOWEL
3) MITRE POST CAP (TRIM)-

