BASIC PLANS FOR 30'x 96' SOLAR GREENHOUSE

MATERIAL LIST:

Cedar, Redwood, Cypress or Pressure-Treated Lumber

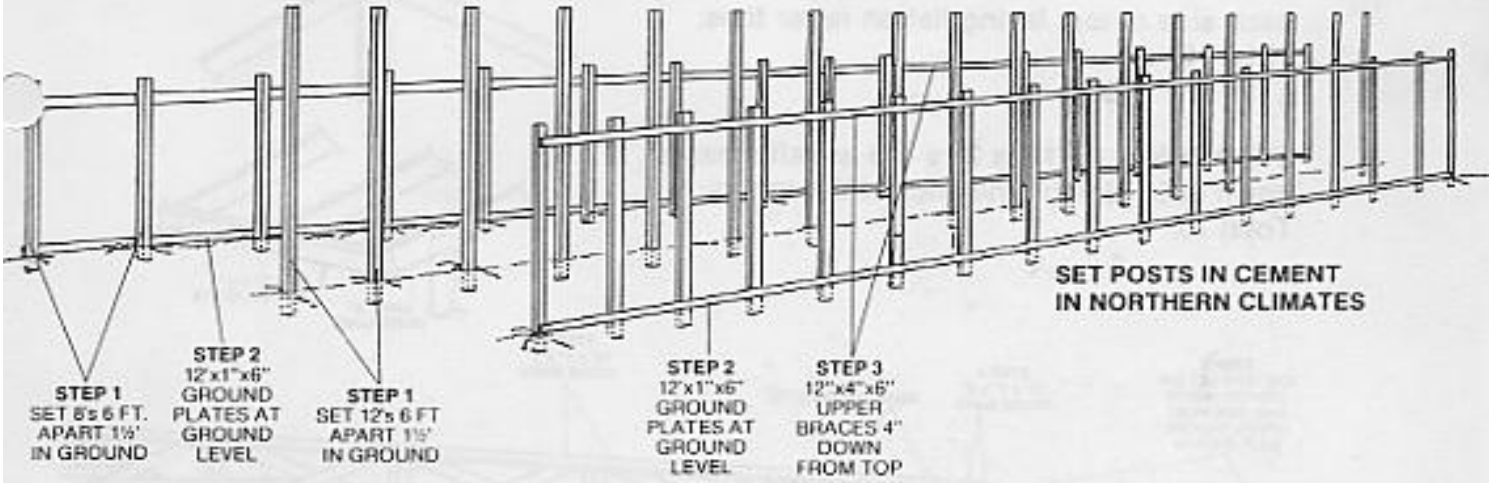
34	8' x 4" x 4"	Side Posts
17	12' x 4" x 4"	Middle Posts
32	12' x 1" x 6"	Ridge Bars, Ground Plates
40	16' x 2" x 4"	Rafters and End Plates
80	12' x 2" x 4"	Braces, Sides, Rafter Braces, Rafter Ends
16	12' x 1" x 4"	Upper Braces
20	8' x 2" x 4"	End Studs, Braces
16	12' x 2" x 4"	Side Post Rafter Seats
24	12' x 1" x 2"	Securing Poly Roof
2	4' x 8' x ⅝"	Plywood

Galvanized Nails
50 Lbs 16p
25 Lbs 10p

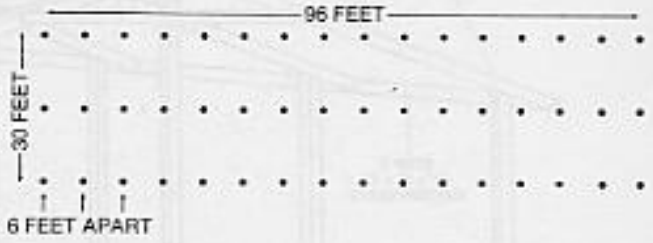
Poly-Film
40'x 100'6 mil 2 rolls
Patching Tape 1 roll

Blower Fan and Wiring

CONSTRUCTION STEPS:



STEP 1: Set **17—8' x 4" x 4"s** 1½' in ground, 6' apart on each side. Total 34. Set **17—12' x 4" x 4"s** 1½' in ground, down the middle of greenhouse, 6' apart from center of post to center of post. Total 17.



STEP 2: Nail **16—12' x 1" x 6"s** to side posts on outside of each side at ground level, 8 on each side. Total 16 ground plates. 12' x 2" x 4"s can be substituted for strength.

STEP 3: Nail **16—12' x 1" x 4"s** to side posts on outside of each side 4" down from top, 8 on each side. Total 16 upper braces.

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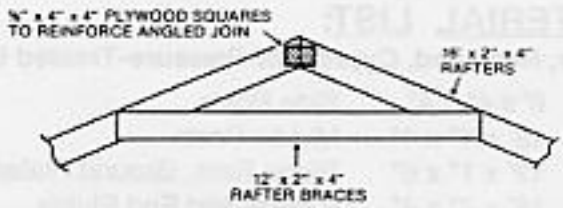
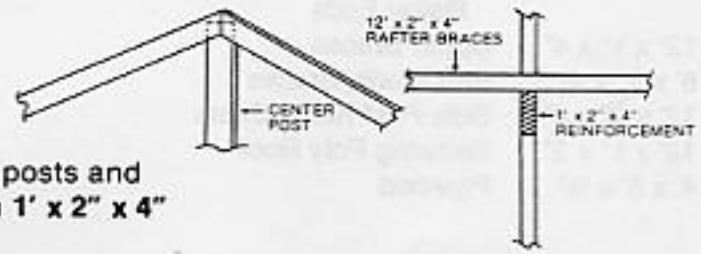
(continued)

STEP 4: Build each rafter with **2—16' x 2" x 4"s** and **1—12' x 2" x 4".** Cut ends of 16's with angle where they meet and nail 12's on top of 16's as rafter braces. Total finished width 31 feet.

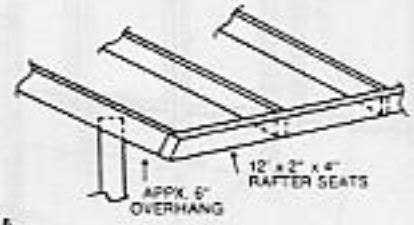


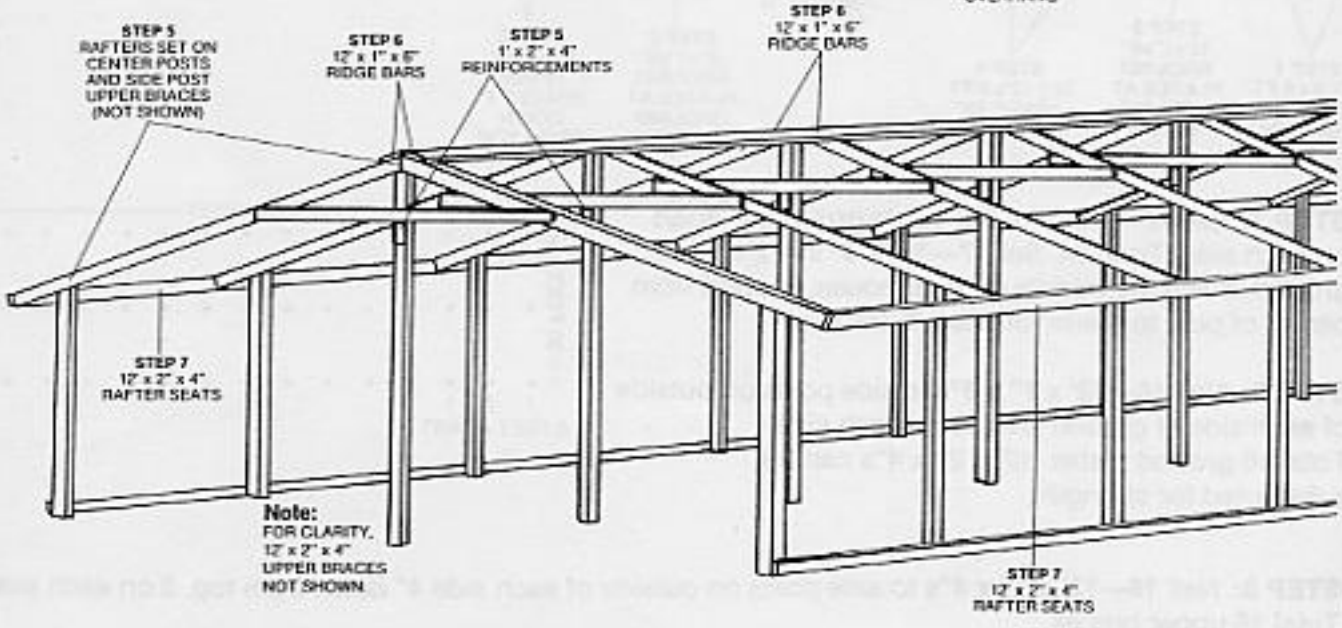
STEP 5: Set rafters (17) on center posts 1" higher than top. Nail here and to side posts, laying on top of upper braces, making sure all posts are plumb. Where center posts and **12' x 2" x 4"s** cross, reinforce with **1' x 2" x 4"** pieces.



STEP 6: Nail **8—12' x 1" x 6"s** ridge bars down each side of top, laying flat on rafter tops. Total 16.

STEP 7: Nail **8—12' x 2" x 4"s** as rafter seats down each side on the ends of the rafters. Total 16.





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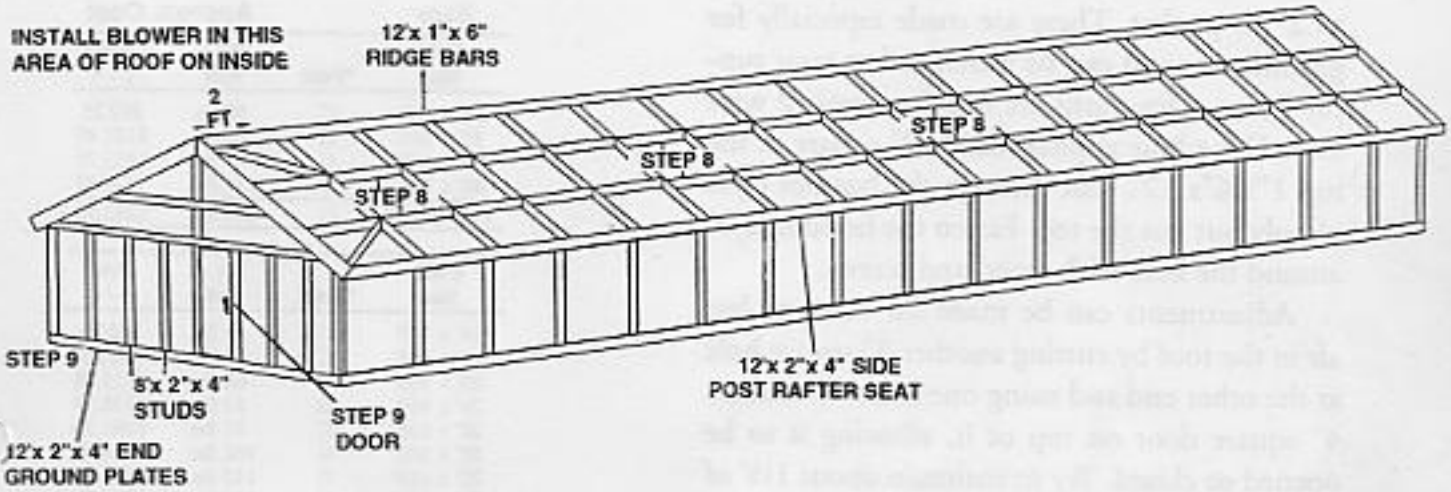
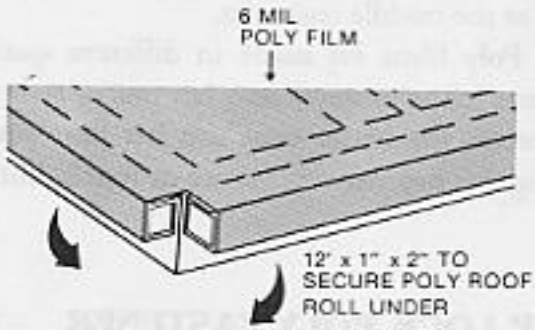
(continued)

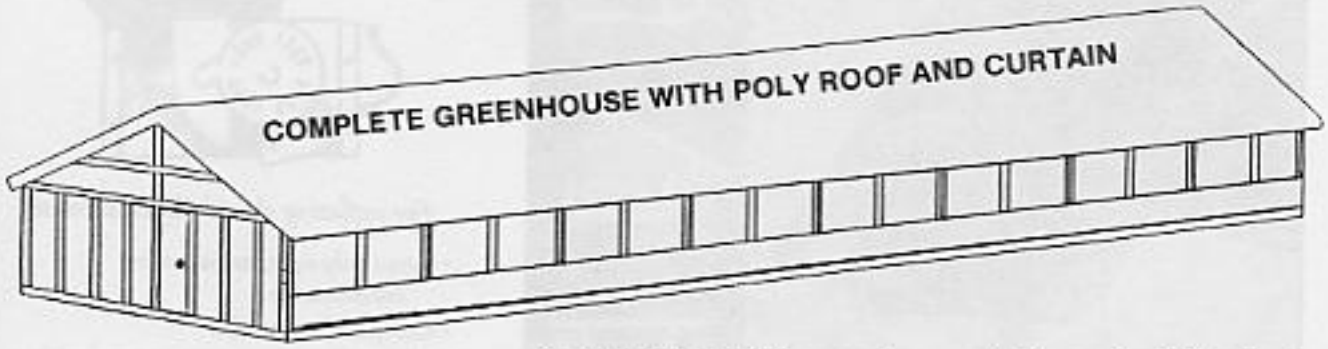
STEP 8: Cut **70½" x 2" x 4"s** for braces between rafters, two between each rafter. Total 64. See large illustration.

STEP 9: Frame ends with **8—16' x 2" x 4"s** (2 upper braces and 2 end ground plates each side), and **7—8' x 2" x 4"** studs for each end. Build door with ⅝" plywood between 2 end studs. See large illustration.



STEP 10: Pull one roll of Poly-Film 6 mil over each side of greenhouse roof using ropes. Tie all corners down. After both sheets are even, use double-headed nails and **12' x 1" x 2"s**, rolling the ends under and nailing to the side post rafter seat. Aluminum locks can be used instead of **1 x 2"s** *(see page 58)*.





(To build 30' x 48' greenhouse, divide materials in half and build according to instructions.)