



## ROOF SHELL PLAN SCALE: 2 3 4FT IVE"X IVE" EDGING STRIP OF 24 GA. GALVANIZED SHEET FORMED ANGLE BOLTED ON WITH VA'X I" CARRIAGE BOLTS. SECTION A-A SCALE DI LI I

## INSTRUCTIONS

LAY OUT AN EQUILATERAL TRIANGLE, 20'-D" ON A SIDE AND DIG THREE

HOLES CENTERED AT THE CORNERS.

POUR A CONCRETE FOOTING IN EACH HOLE.
PLACE TREATED POSTS IN THE CENTERS OF THE HOLES, BRACE THEM
PLUMB AND POUR A CONCRETE COLLAR AROUND THE BASE OF EACH POST. BACKFILL WITH WELL-TAMPED EARTH AND POUR THE CONCRETE COLLARS

PLACE THE POST CAPS AND INSTALL THE CROWN BEAMS.
ANGHOR THE POST CAPS AND INSTALL THE SIDE BEAMS WITH TEMPORARY
SHORING TO PROVIDE SUPPORT UNTIL THE ROOF SHELL IS COMPLETED.
TO AID IN APPLYING THE ROOF STRIPS, INSTALL THREE 2"X4" TEMPORARY RAFTERS AT QUARTER POINTS BETWEEN THE CROWN BEAM AND THE OPPOSITE

SIDE BEAM.

BEVEL THE TOP EDGES OF THE BEAMS TO SUIT THE ROOF STRIPS.

TWENTY-SIX GAGE GALVANIZED STEEL STRAPS, "KIZ", PUNCHED FOR TWO
6d NAILS AND TWO 1/46" BOLTS, ARE NAILED ACROSS EACH PAIR OF CROWN

BEAMS ABOUT 12" APART.

THE ROOF STRIPS ARE 1/4" TEMPERED HARDBOARD 12" WIDE. EACH SEGMENT THE ROOF STRIPS ARE "" TEMPERED HARDBOARD 12" WIDE. EACH SEGMENT OF THE ROOF SHELL IS FORMED OF TWO LAYERS OF FIFTEEN STRIPS. THE STRIPS EXTEND FROM THE CROWN BEAMS TO THE SIDE BEAMS, AND ARE NAILED WITH 64 NAILS SPACED 4" TO 6" APART. THE FIRST STRIP IN THE BOTTOM LAYER IS APPLIED ALONG THE SIDE BEAM IN THE OPPOSITE DIRECTION TO THE TEMPORARY RAFTERS, ALLOWING A 6" OVERHANG. FROM THE OUTER EDGE OF THE OVERHANG, MARK THE CROWN BEAM AND THE OPPOSITE SIDE BEAM INTO IS EQUAL SPACES. THESE MARKS LOCATE THE OUTER EDGES OF THE ENDS OF THE ROOF STRIPS. THE STRIPS WILL BE SPACED APART AT THE ENDS BUT THEIR EDGES SMOULD BUTT TOGETHER ABOUT OVER THE TEMPORARY RAFTER NEAREST THE

CROWN.

THE TOP LAYER OF STRIPS IS APPLIED IN A SIMILAR MANNER BUT IN THE OPPOSITE DIRECTION. AS THE STRIPS ARE LAID, WORKING FROM THE SIDE BEAM TOWARD THE CROWN, BEAM, THEY ARE FASTENED TO THE BOTTOM LAYER WITH AT LEAST TWO 946." CARRIAGE BOLTS WITH WASHERS AT EACH INTERSECTION. TO COVER THE SPACES BETWEEN THE STRIPS OF THE BOTTOM LAYER, LEAST 12. WIDE.

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END SPLICING OF STRIPS SHOULD BE MADE UNDER OR ABOVE A STRIP OF THE OTHER LAYER. CARE SHOULD BE TAKEN TO STAGGER THE SPLICE IN ADJA-

CENT STRIPS.

TRIM THE EDGES OF THE FINISHED SHELL SEGMENTS, BOLT THEM TO THE STEEL STRIPS AT THE CROWN BEAMS AND APPLY THE METAL EDGING STRIPS

ALONG THE OVERHANG.

ADDITIONAL FIBERGLASS STRIPS, CEMENTED WITH EMULSIFIED ASPHALT ROOF COATING, ARE APPLIED OVER THE SPACES BETWEEN THE HARDBOARD STRIPS OF THE TOP LAYER. THE ENTIRE ROOF IS COATED WITH STABILIZED ASPHALT. THE THREE RIDGES ABOVE CROWN BEAMS MAY ALSO BE WEATHER PROOFED BY THE SAME PROCESS.

-34 GA, GALVANIZED STEEL FORMED ANGLE JAKI" CARRIAGE BOLT, 12" O.C. ROOF SHELL 11/2"

SECTION B-B

COOPERATIVE EXTENSION WORK IN AGRICULTURE AND HOME ECONOMICS DEPARTMENT OF AGRICULTURAL ENGINEERING UNIVERSITY OF MARYLAND

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