

Figure II

The doniker tent is used for an example as it can be drawn on the size of paper used for the LCW.

1. Draw the tent top view as it would actually be seen if looking down directly from the air to the top and draw it to show only the actual ground covered when set up as in Figure I. Points A, B, C & D would be the positions of the side poles and O the position of the main pole. Additional side poles may be added for longer tents. Project line A-O-C-C1 down some distance on the paper,
2. Draw the side view of the tent as looking in from one side at the actual section of the center pole. This is shown in Figure II as E, G, F, F1, G1 & E1. Lines E-E1 and F-F1 are the side poles and G-G1 is the center pole. Draw line G-H out horizontally from G or the top of the center pole. Take your compass or dividers and set them for the distance G-F on Figure II. Next draw the arc F-J and project the point J up onto the drawing in Figure I until it intersects the projection of line A-O-C-C1. This will be at point K. Line O-K will now give you the true radius of the circle which will make your tent top. This radius cannot be obtained in any other way as line O-C in figure I or line G-F in figure II are not true dimensions as they do not lie in the plane of the paper but actually project out.
3. Now, using the line O-C-K in Figure I, set your compass to O & K and draw a full circle as in Figure III, with L as the center and the circle M-N-P-Q-R. Also draw a radius line out at any point and as shown in line L-M in Figure III. This is to give a starting point and also one of the seams of the top. Next take your divider and set them to the dimension E-F in Figure II. Starting at point M in Figure III, mark off four spaces on the circle as at N, P, Q & R in Figure III. Connect these points together as with straight lines M-N, N-P, P-Q & Q-R in Figure III. Also draw a line from each of these points to the center of the circle L. Cut your pattern along the straight lines M-L, M-N, N-P, P-Q, Q-R, and R-L. That is the pattern for your top. The dotted lines on the drawing show one half inch added for the hems and the seam. We draw the pattern on cardboard or stiff paper, cut it out, and draw it on the cloth you wish to use. Then take the pattern away and add the half inch around the outside for horns and additional half inch on the one seam for them lap. When sewed together line L-R will be overlapping L-M. Add your grommets for the poles and the guy ropes and the top is completed.
4. No attempt at the description of actual construction has been made as much has been said along this line already and this is an article primarily on layout.

Square Top Layout

DATE: None

SCALE: None

SCANNED & REVISED:
01/20/04

Pg 1 of 2

Circus Model Builders

Drawn By
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DRAWING NUMBER

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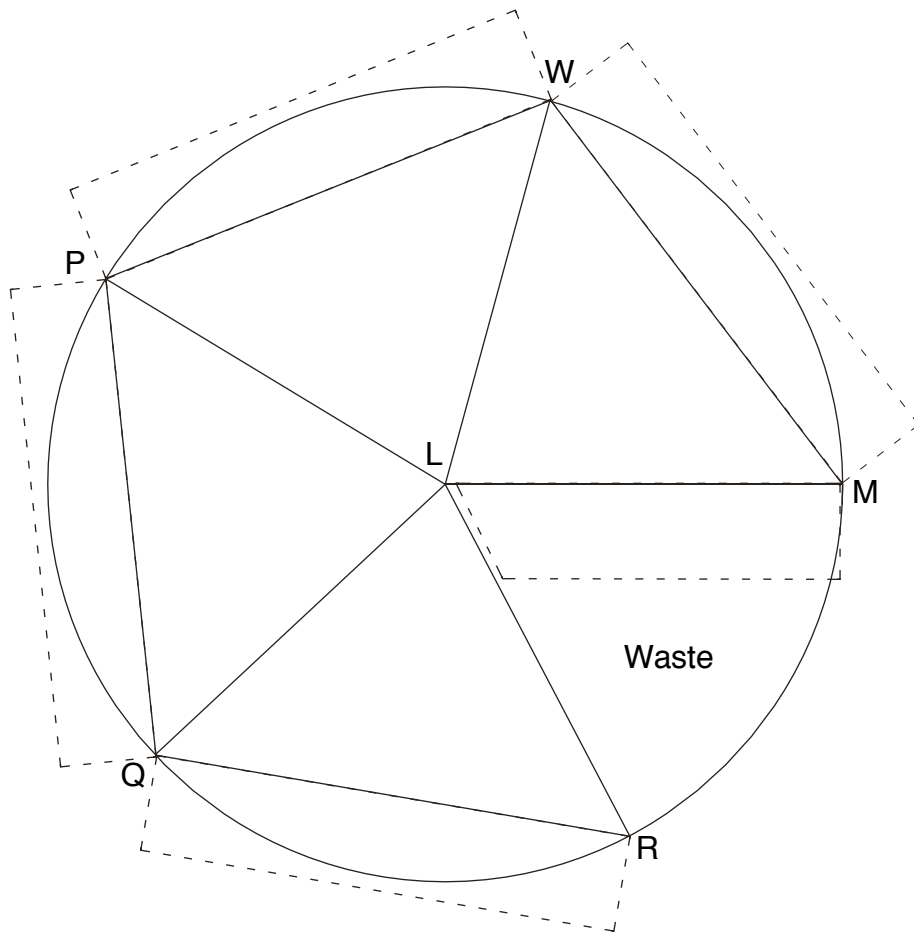


Figure III

Square Top Layout