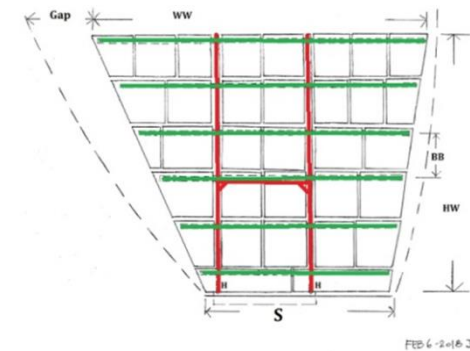
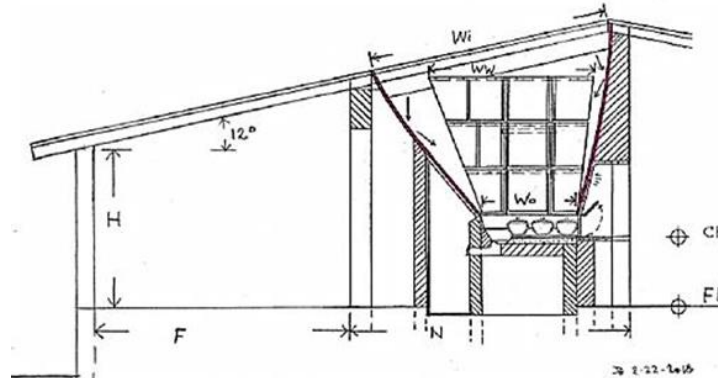
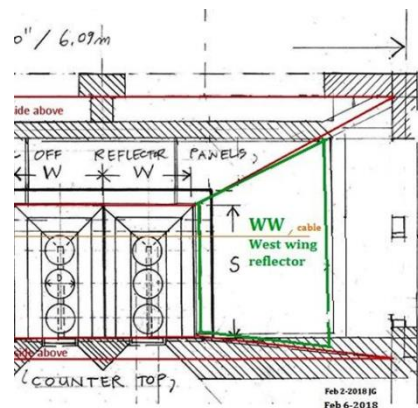
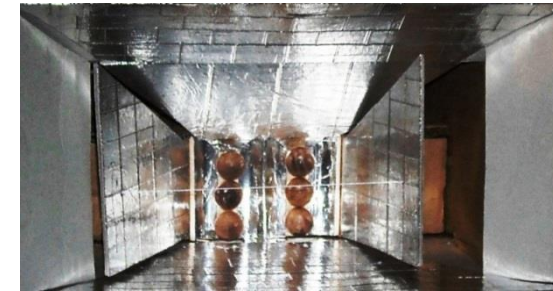
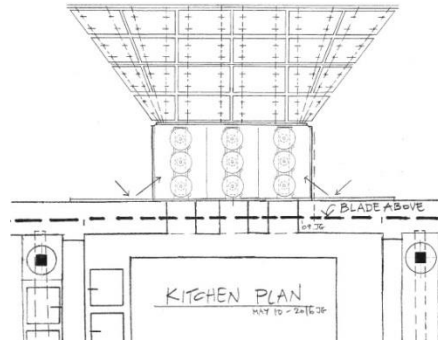
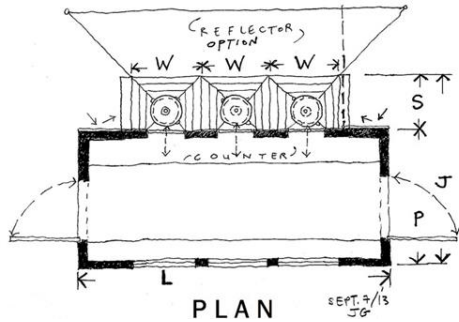
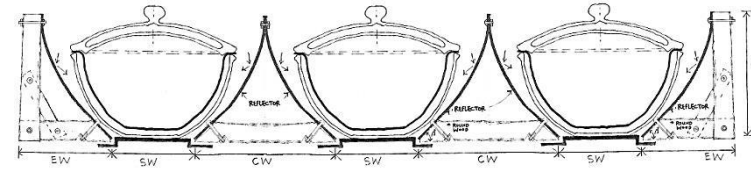
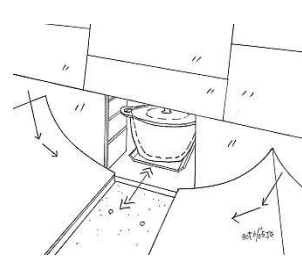
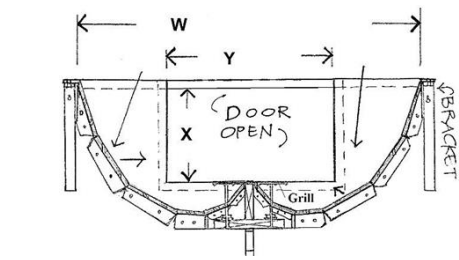


PLAN 9 rows, 27 cookers



Thru-Reflector-Wall (TRW) Nonimaging concentrator solar kitchen studies

Joel H. Goodman June 30, 2021



'BOXES'

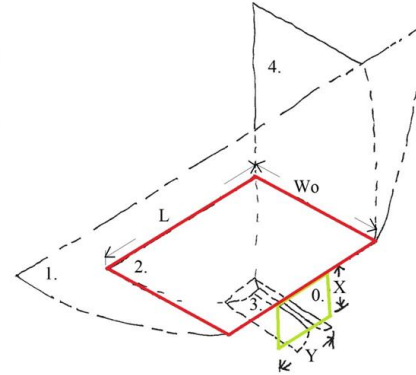
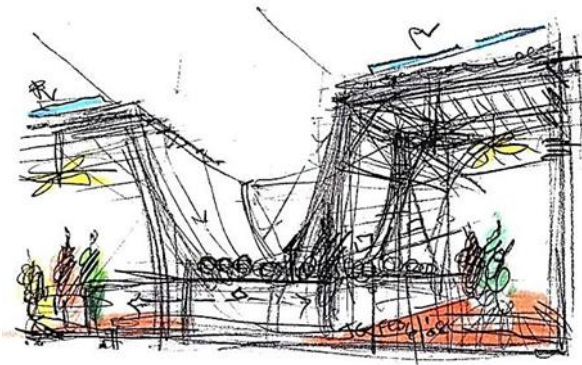
TROUGHS

The secondary concentrator reflector for the TRW slide in-out cookware may be reflector 'boxes' or troughs. A reflector trough CPC appears to be an economical fabrication with bamboo and metal reflector. The reflector 'box' configuration has concentration to the pot bottom and the troughs may not have concentration to the pot bottoms.

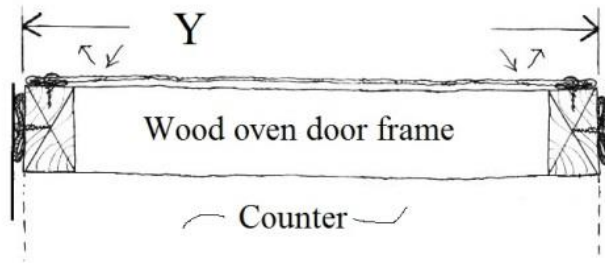
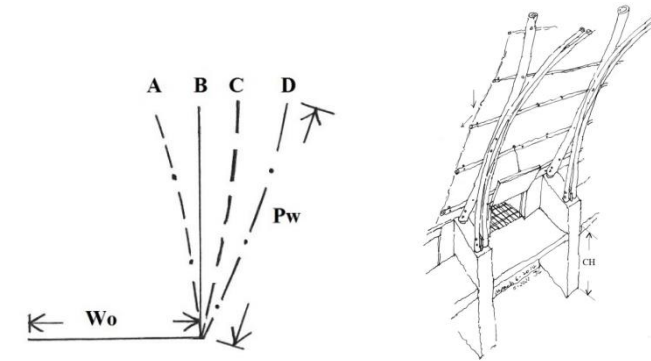
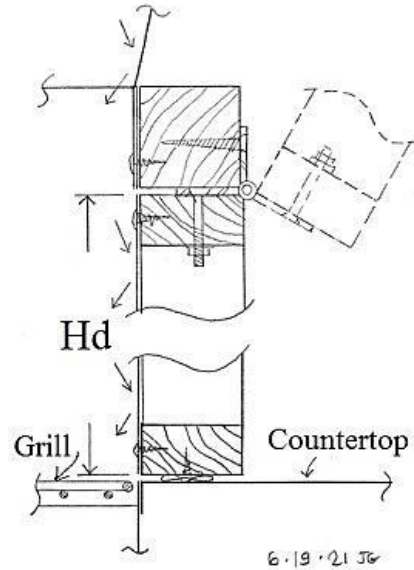


Thru-Reflector-Wall (TRW) Nonimaging concentrator solar kitchen studies

Joel H. Goodman June 23, 2021

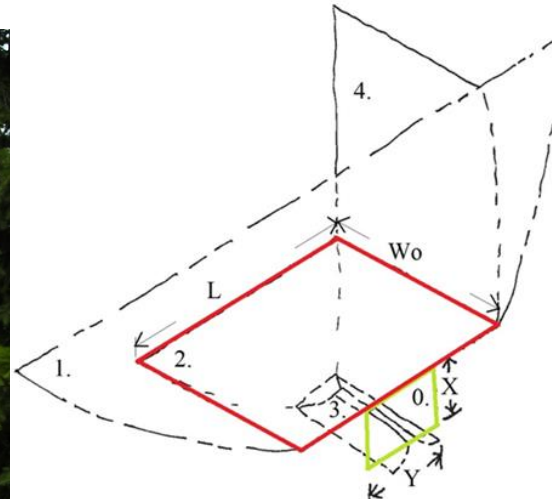
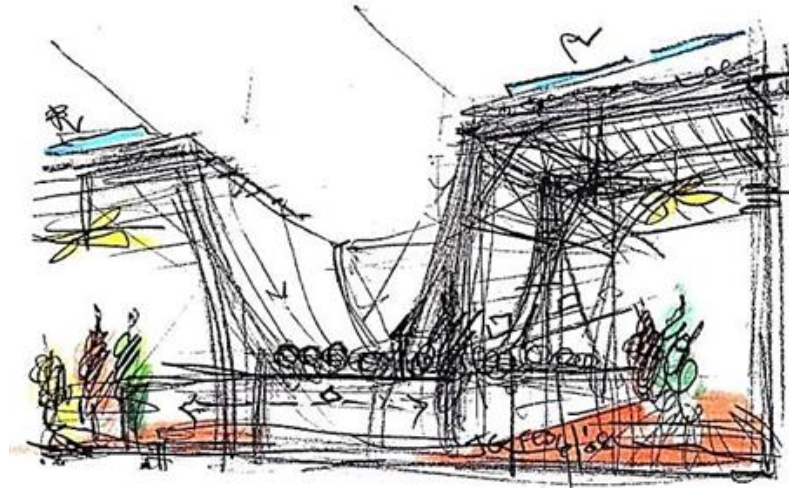
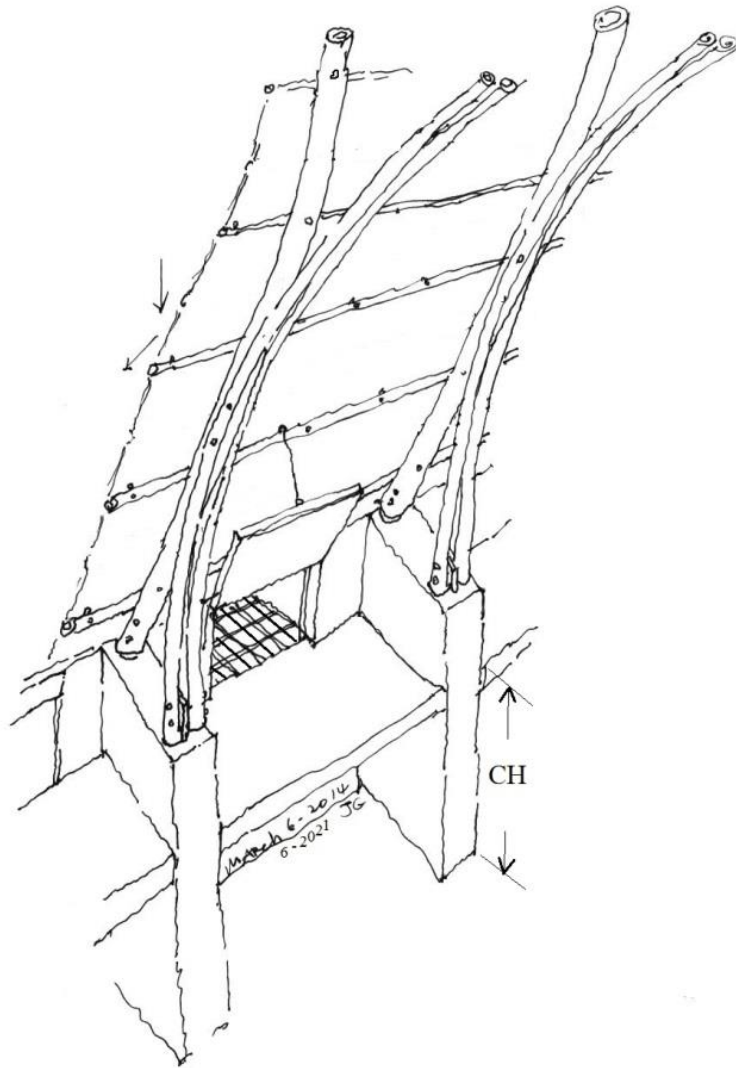


The vertical rectangular oven door size (X Y) is determined by the sizes of the cookware that will slide in and out. The top-hinged oven door may be a wood frame with sheet metal reflector, anodized aluminum. The wall reflector (1.) one-sided CPC may be metal reflector bolted to horizontal bamboo shaped according to site latitude.



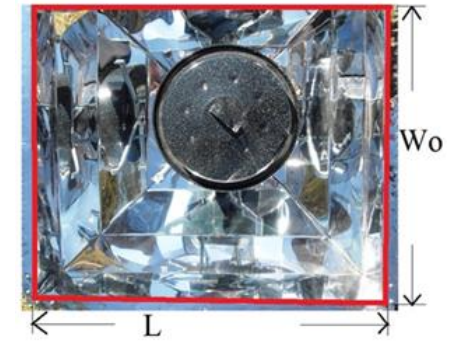
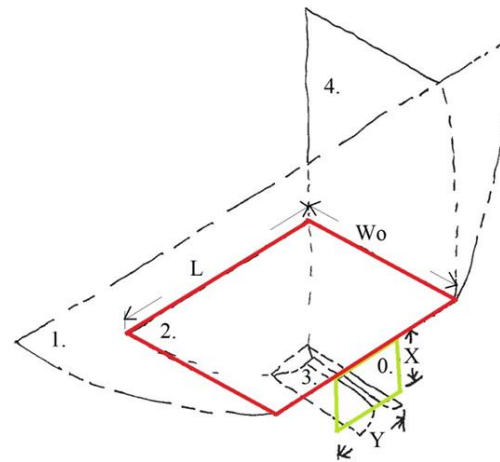
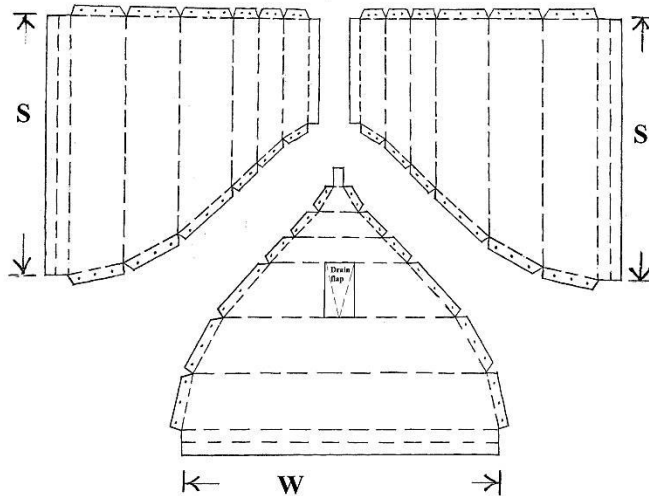
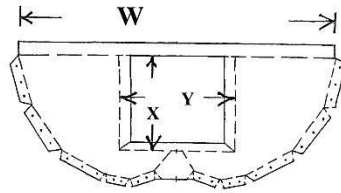
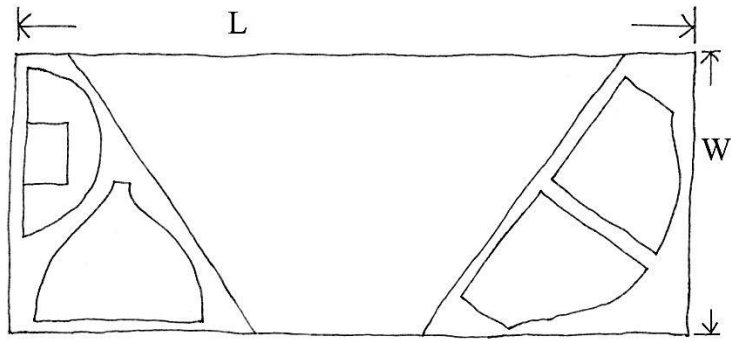
Thru-Reflector-Wall (TRW) Nonimaging concentrator solar kitchen studies

Joel H. Goodman June 18, 2021



Thru-Reflector-Wall (TRW) Nonimaging concentrator solar kitchen studies

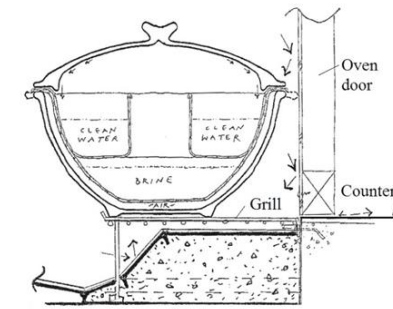
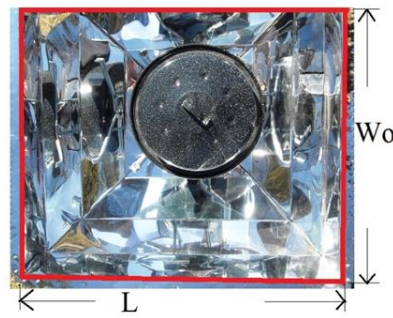
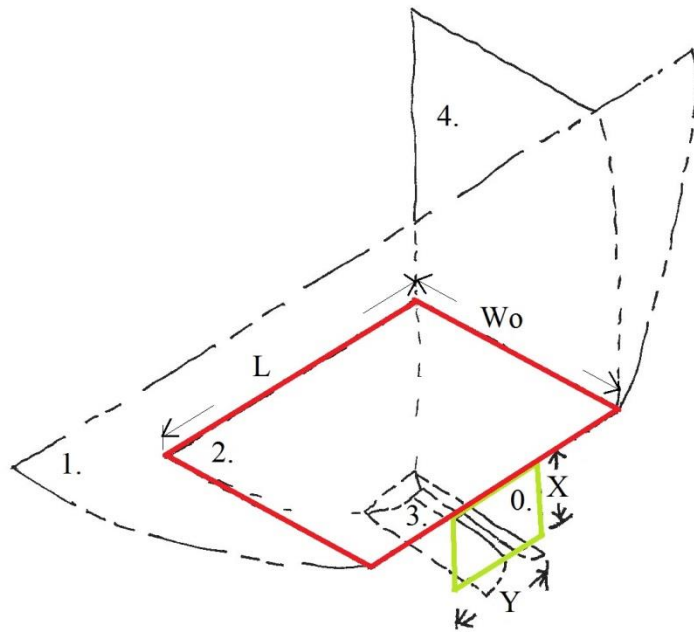
Joel H. Goodman June 16, 2021



A study with anodized aluminum reflector has the one-sided CPC kitchen wall trapezoid and four parts of the reflector 'box' cut out of a standard rectangular sheet size.

Thru-Reflector-Wall (TRW) Nonimaging concentrator solar kitchen studies

Joel H. Goodman June 16, 2021



The TRW has an unglazed reflector 'box' with a horizontal inlet aperture ($W_0 \times L$) which is above the cookware top to reduce losses from horizontal wind. The cookware slides onto a grill that is level with the counter. The grill is supported above a pyramid-shape reflector (3.) which is connected to the reflector 'box'.



Thru-Reflector-Wall (TRW) Nonimaging concentrator solar kitchen studies

Joel H. Goodman June 13, 2021