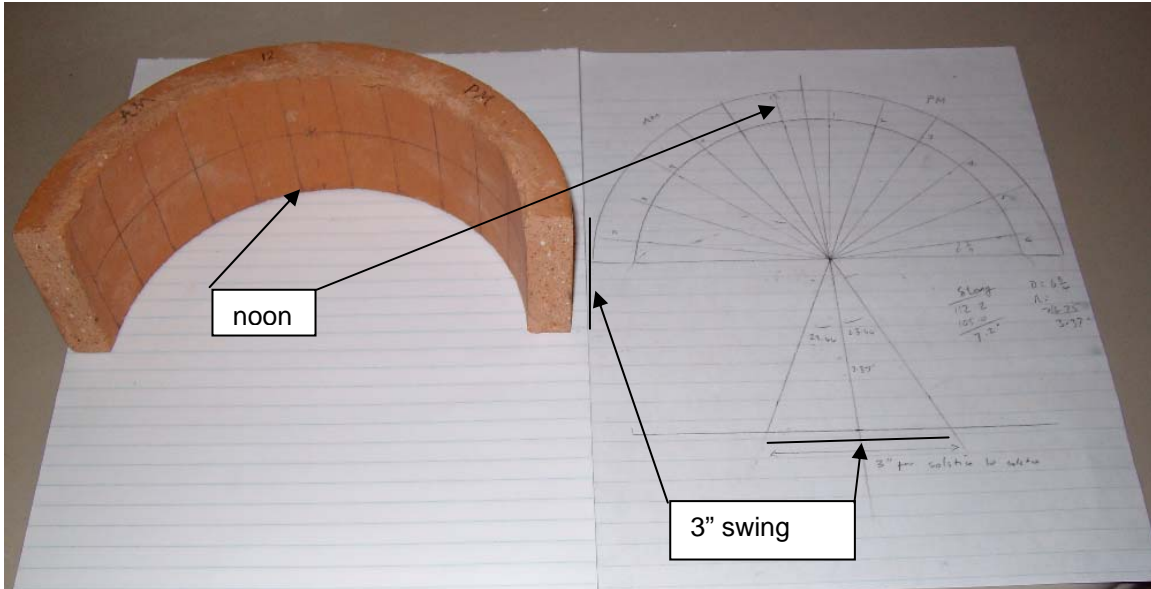


## CASE STUDY ~ AN ARMILLARY DIAL WITH CALENDAR LINES

This dial will be for Phoenix, AZ, whose coordinates are:

Lat 33.5 and longitude 112.2 with a legal meridian of 105:-



The hour lines (AM right in the above, PM left) were rotated 7.2 degrees, and the span of the nodus for a style to plate radius of 3.37 inches was about 3", so the armillary was cut from a clay pipe with enough width to handle the solstice to solstice swing, because the style would have a nodus.



I accidentally engraved the 9 am numeral on the 8am hour line, luckily this was the first engraving. So, I had to offset all the other hours also. Lopsided, but it will work, and be an interesting change for an armillary dial.



The dial plate tacked to a base and to some small rocks, using Versabond.



The dial protected with masking tape before mortar was applied. Mortar was used rather than sanded grout, this was to generate a coarser finish.



The final dial in use.

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