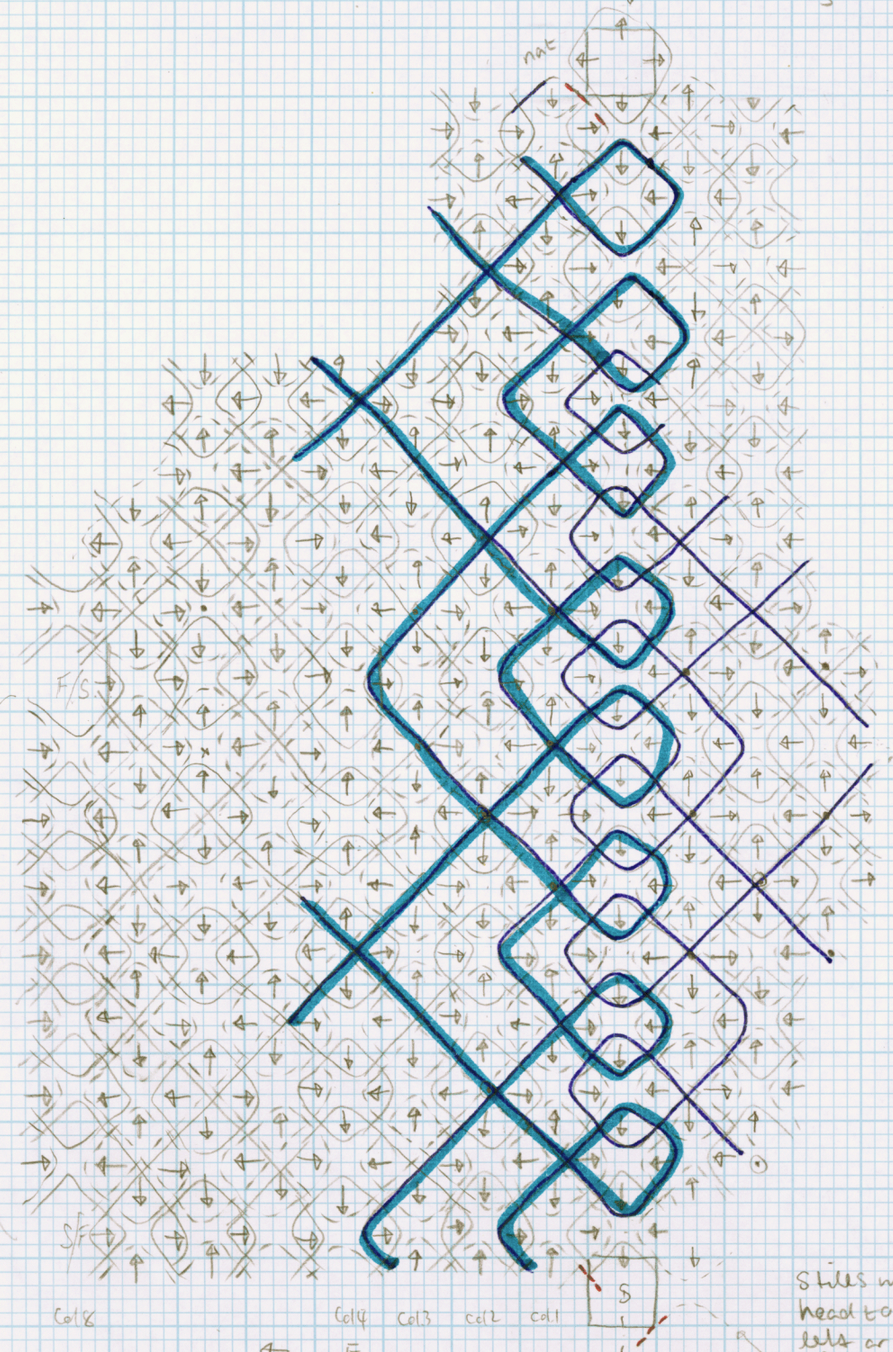
13 July 06

fault line must be infinite
inserting F tile produces ~~inconsistent~~ tiling failure at
See bottom p.4



S ↑ OR S ↓

S tiles must continue head to tail not head to tails or right by red lines

never repeat fault line

every tile is forced by fault line (arbitrary choices in col 6 & 2 for F tile positions only translate infinite strip)

3.(ii) continued

only one, infinite fault-line may exist

15 July 06

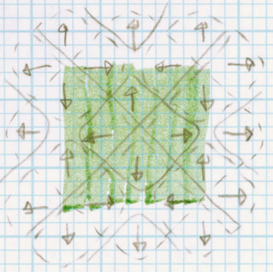
4. Grids of all sizes must exist (apart from fault line) and therefore any tiling is non-periodic.

Apart from a possible fault line ∃ grid (on each side) of F tiles closely enclosed in red rings.

4 of these red rings surrounding an F tile on its sides makes an inflated F tile, again in a red-ring.
The scale is ×2

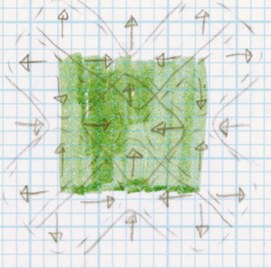
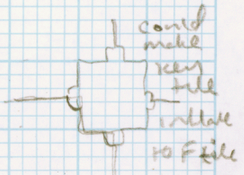
And 4 of the smaller red rings surrounding an S tile on its sides makes an inflated S-tile

Because these inflations are in all respects of matching similar to the regular tiles and no others exist all that is possible and impossible for the regular tiles is [illegible] possible or impossible for the inflated tiles
In particular 3(i) & 3(ii) apply equally and an inflated fault line is possible
But again, it is arbitrary and infinite
See page 4



inflated F-tile

(ignore arrows along sides of inflated tiles because not inflated sides are same edges)



inflated S-tile