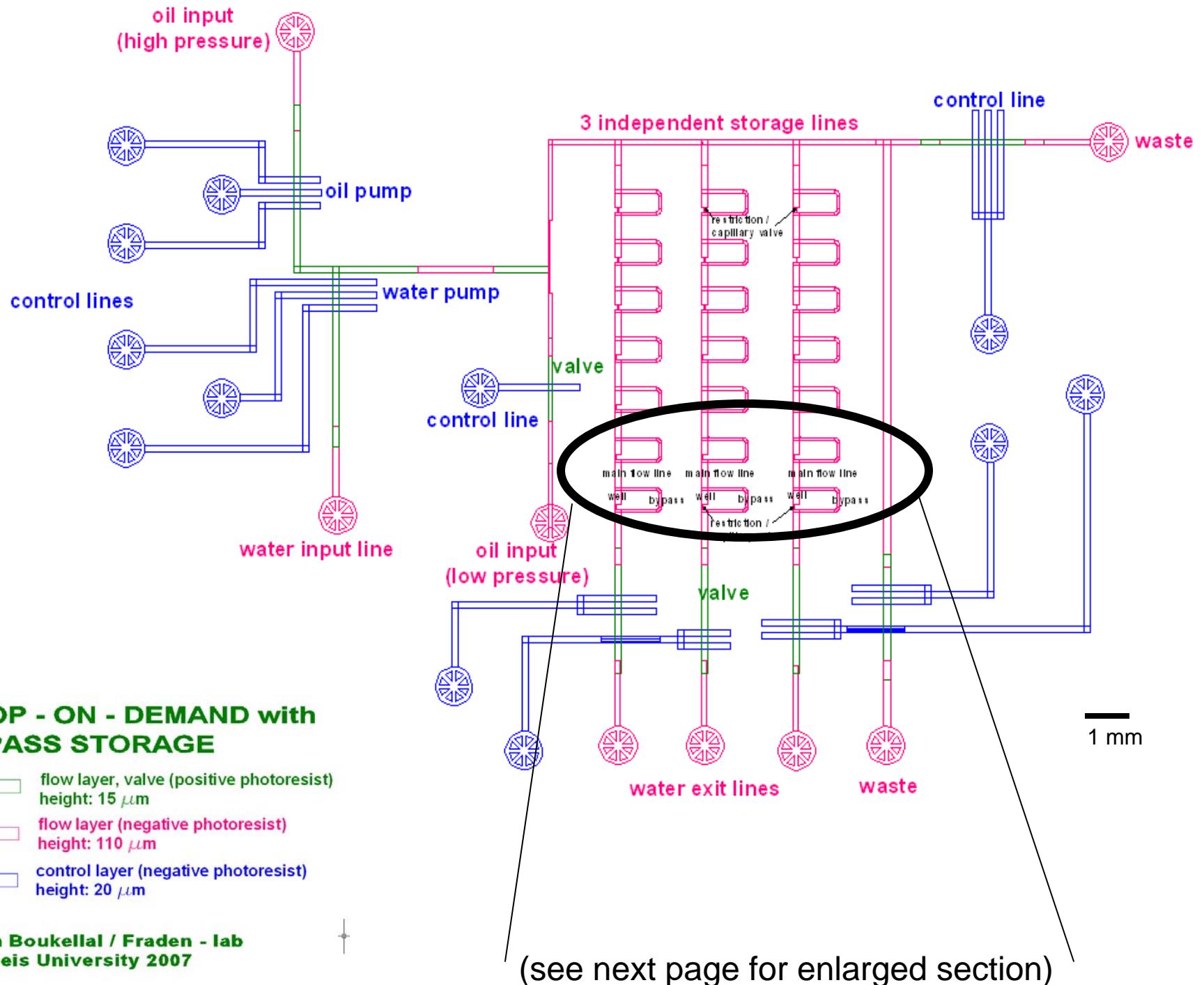
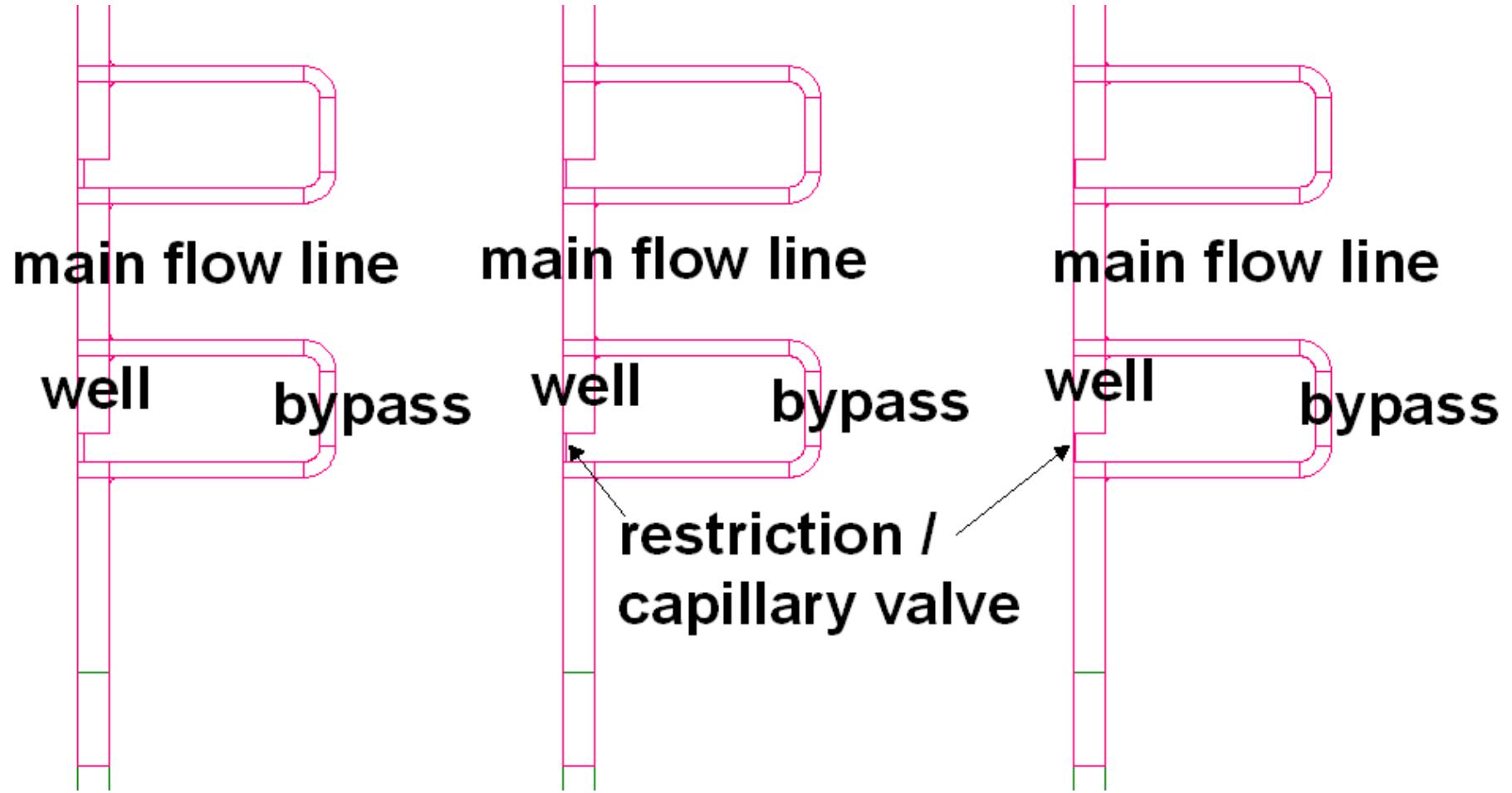


I.) JAMIN EFFECT

- █ flow layer, valve (positive photoresist)
height: 15 µm
- █ flow layer (negative photoresist)
height: 110 µm
- █ control layer (negative photoresist)
height: 20 µm





II.) DROP - ON - DEMAND with BYPASS STORAGE

- flow layer, valve (positive photoresist)
height: 15 μm
- flow layer (negative photoresist)
height: 110 μm
- control layer (negative photoresist)
height: 20 μm

200 μm

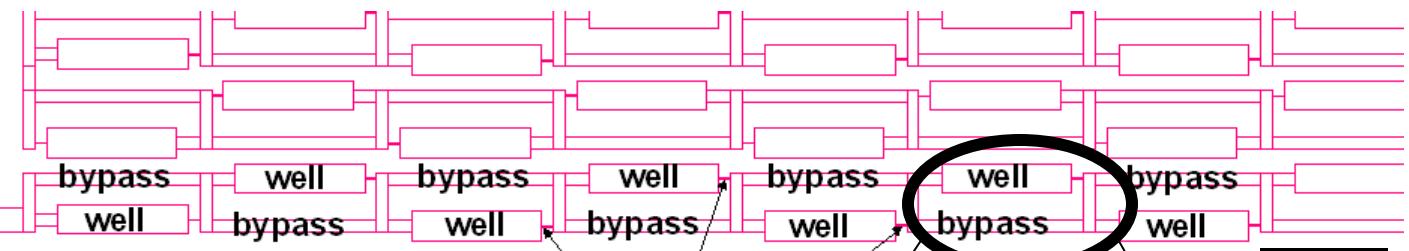
Capillary valve dimensions:
30 μm x 130 μm

Capillary
valve
dimensions:
 $10 \mu\text{m} \times 100 \mu\text{m}$

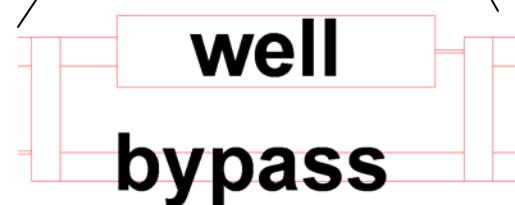
water
input
line 1

water input line 2

oil input line



1100 μm



100 μm

III.) SYMMETRIC BYPASS STORAGE

flow layer (negative photoresist)
height: 100 μm