## STEPS FOR STANDARD CELL DESIGN

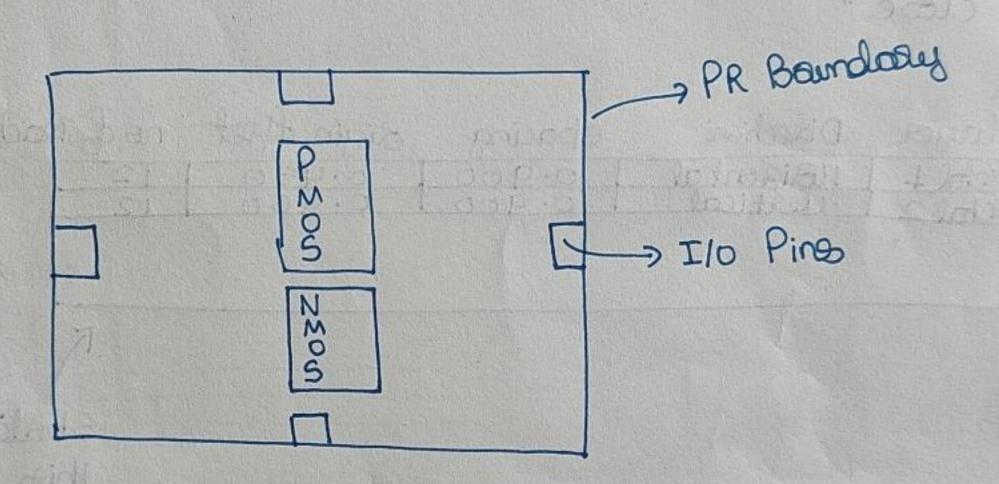
STEP1: Layout XL -> New File -> Cell name -> "OK"

STEP2: Connoctivity - All From Source

# Generale Layart

enouse I/o Pino mode to Metal

##



NOTE: Paoss "SHIFT + F" to Show

STEP3: Delote the PR boundary and Gomorate Track Pottoon

Georde - P&R object - Track Patterns

Layer: Metal 1

Disaction: Kaizantal

Spacing: 0.900

Bigin ffeet: 0.450

ne of Taacks: 12

" click update "

MAHOMHTE AND E9516 de the Same again Layer: Metal 2 different 4 Jx tipped ; 1997 Direction: Vertical <u>Spacing</u>: 0.90 THE RESIDIATION SET STATE Bigin offset: 0.450 no of Tracks: 12 " click update " " dese" JUNE BOUNDERS no of Tracks Sigin offset layer Disection spacing Metal 1 UBizant al 0.450 0.900 0.900 watical Metal 2 NORTH OUT GILL Shald look like this Gaids = Tracks 3 should look like this

Sixon por 1 11

OUR . O : HUDRIC

och.o: Table divis

## STEPH: LABELS

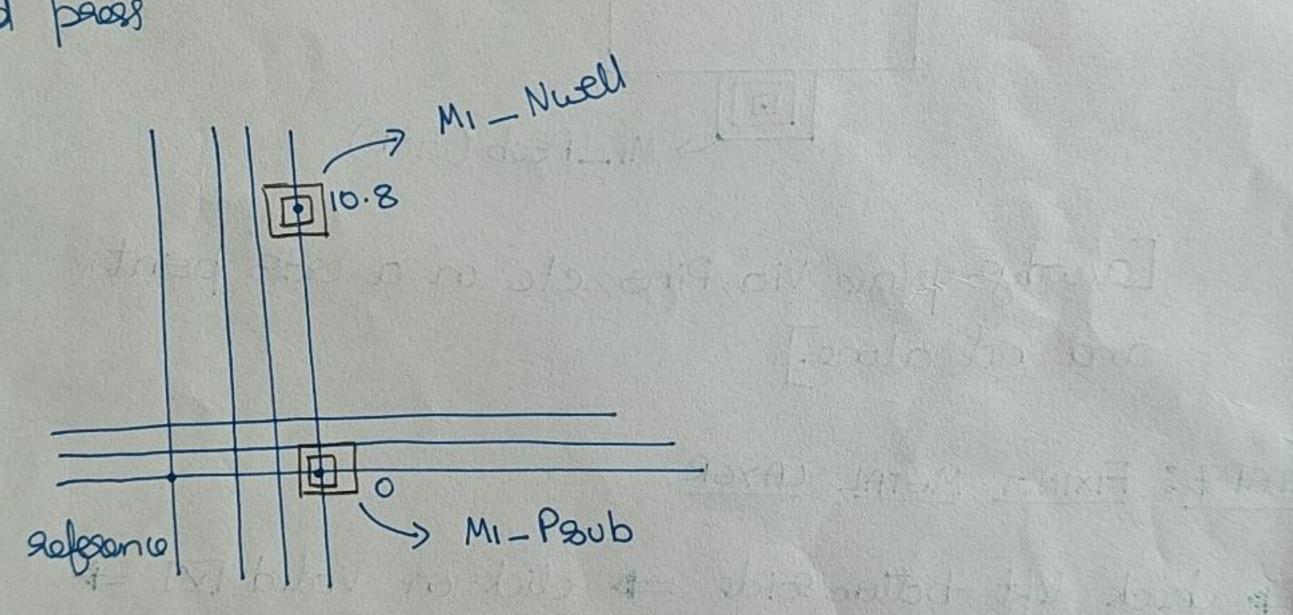
Click L \_ Label (Pattoon) ? A Z VOO GNO }

click on the apparepriate Pines to label them.

STEPS: Place Via

use k 68 Scalo - Stoat Bigin - measure 10.8 and beess

Dun pard 4 N Sisi

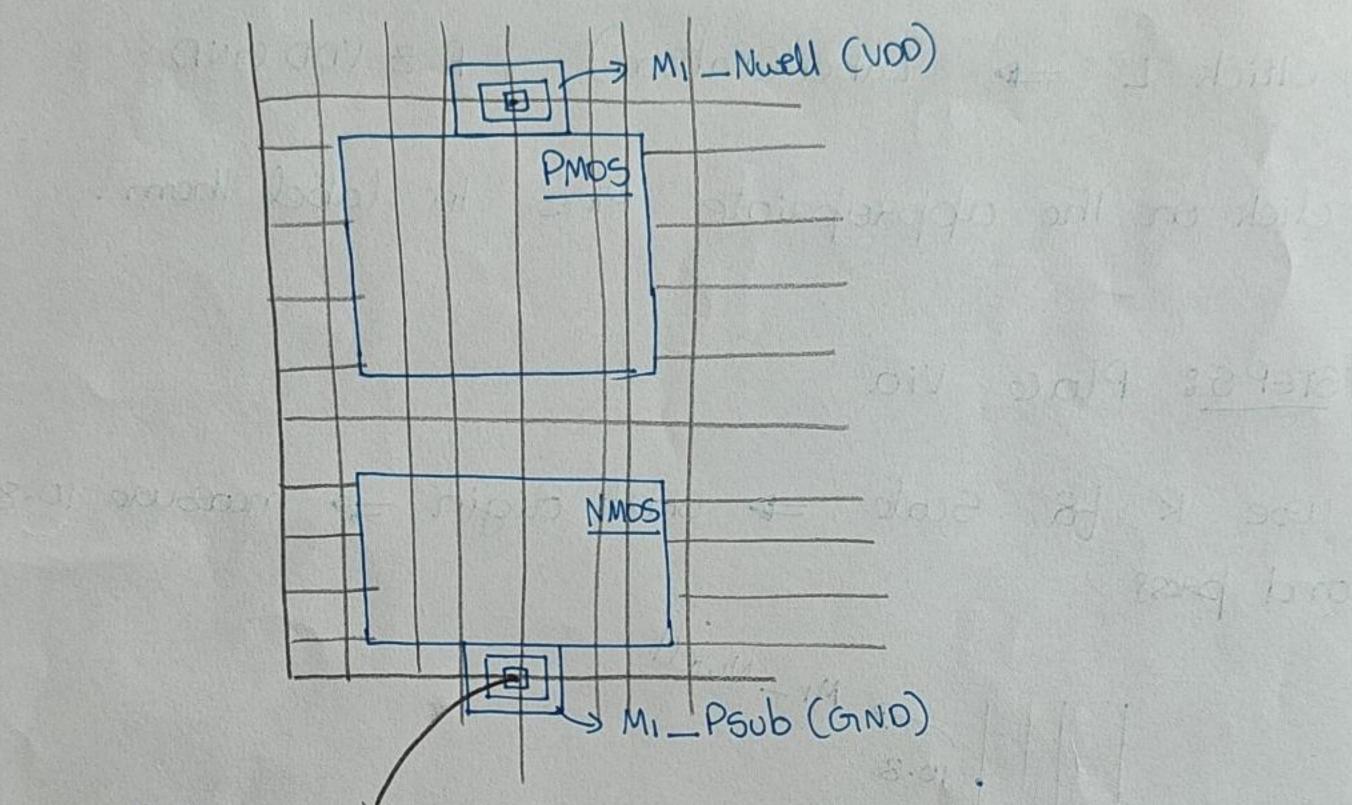


VOD -> use MI-Nwell " Paose 0" GND -> use MI-Psub

STEPG: ALIGN NMOS and PMOS

" click A" - Select the object - click whose to align

ones we place the nmbs/Pms as shown



Lalways place via, Pins, etc on a cuss point and not alone.

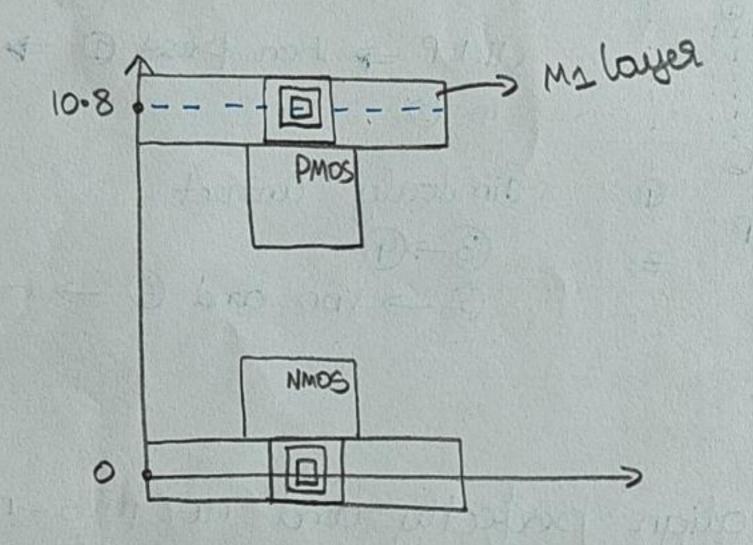
STEP7: FIXING METAL LAYER

· remark

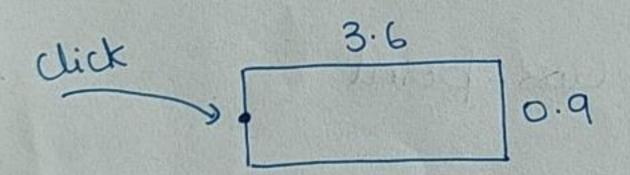
→ check left-bottom side → click on Valid 121 → ALCOUNT OF GOVERNO CONTRACTOR OF THE WORLD choose Metal 1 0034-1N. 0000 = 000

" click R" - Drag and draw a rechangle -> click one it & press os into al ladio della de fagiola del fasione de la latina

now we need to align it



ensures we keep the alignment by Passing A



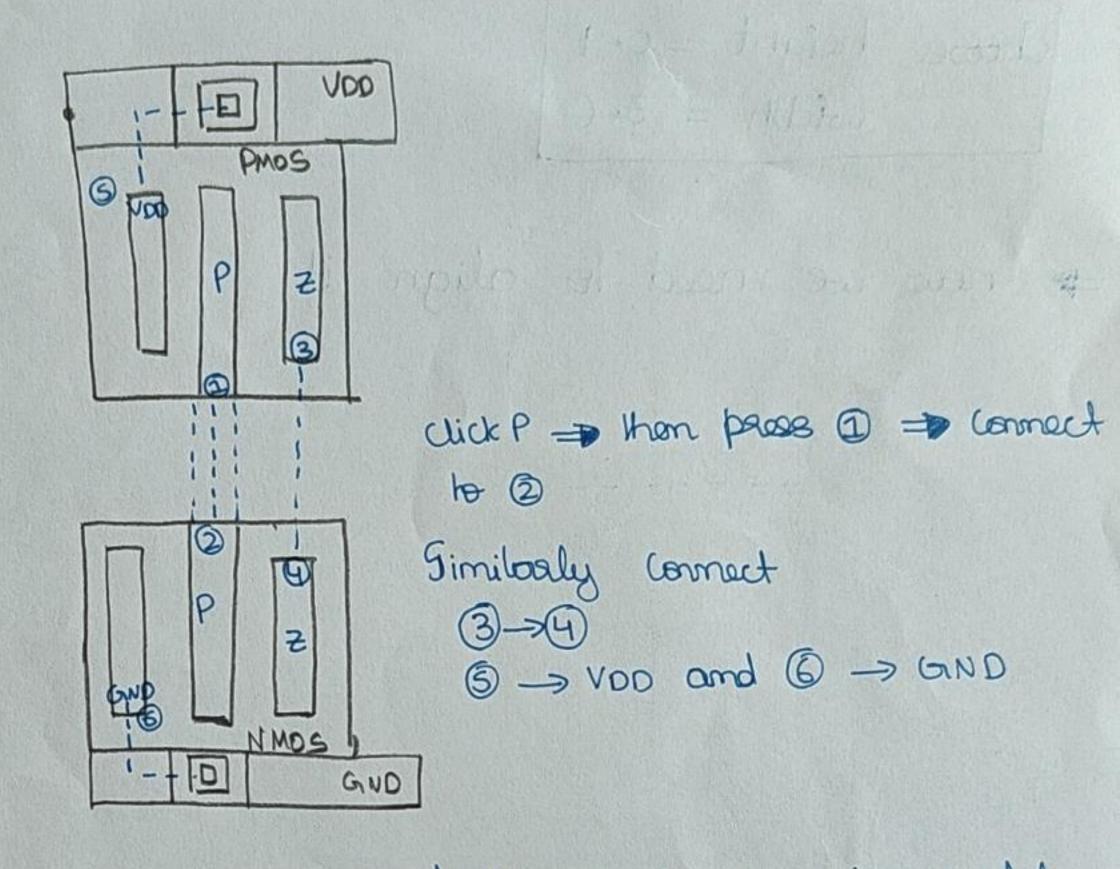
then place it as shown at 10.8 and a suspectively

STEP8: Connect Pely, VDD, GND, and Z

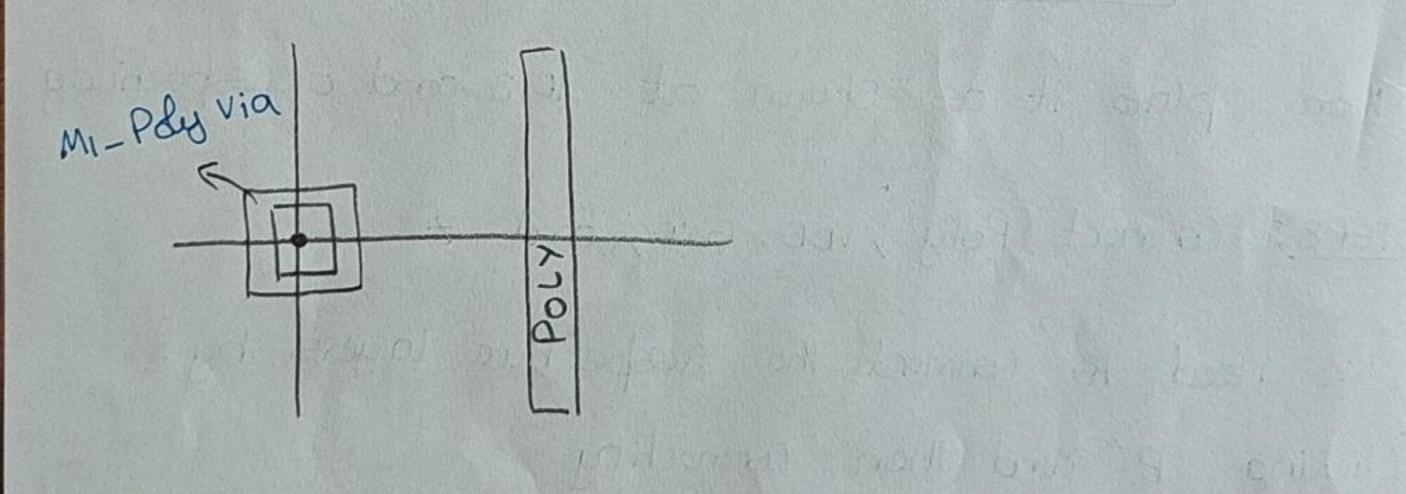
we need to connect the suspective layers by "clicking p" and then connecting

The state of the s

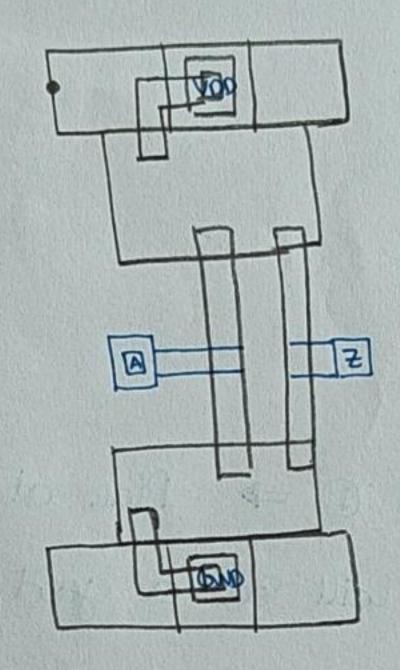
CARLO SINGLE SINGLE



Ensure that they align perfectly and no mis-match 19.000 19.00 31 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 19.00 when placing remouse at a lass-point



PinA " click A" - click at contex of Pin - Palace sight at the center of via



Charles and Addison

ASSIST

we can use this assistant to check be unconnected pires.

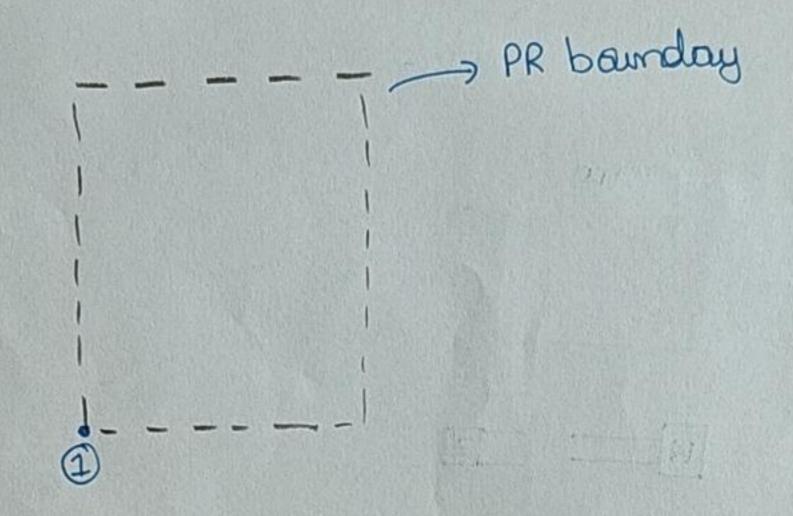
700 404 700 300 1000 1 12 12

de ensuso voo, GND, A, Z aso all placed at cass-points which also Includes alignining via.

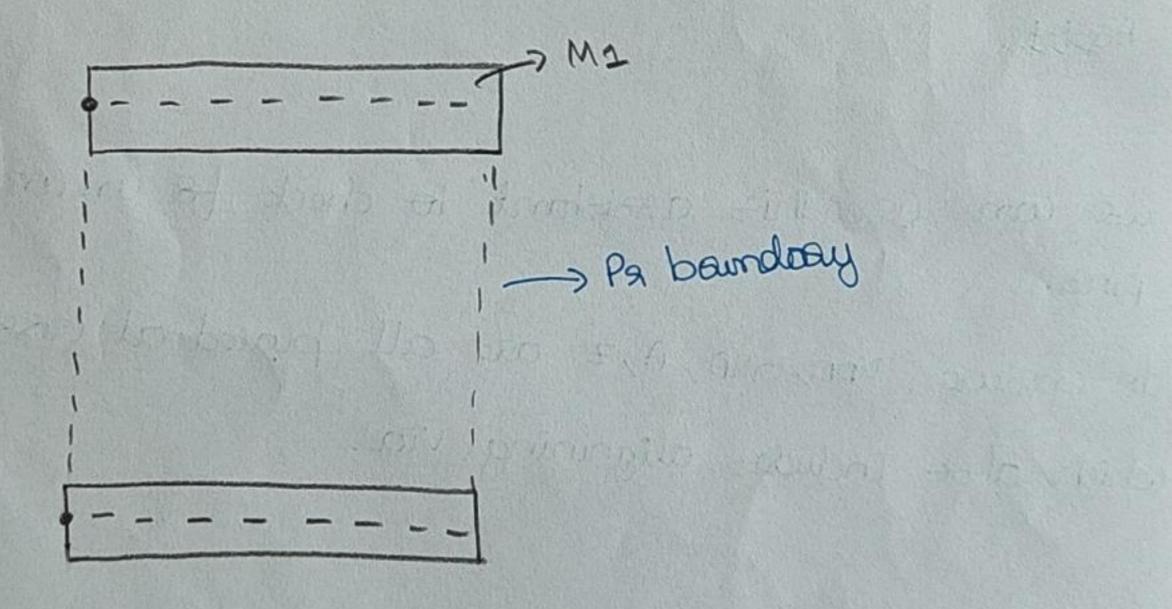
STEP 10: Greating PR boundary

In the seeach box - Pa boundary - click and draw using 9 - Select & press &

height = 10.8 [width = 3.6

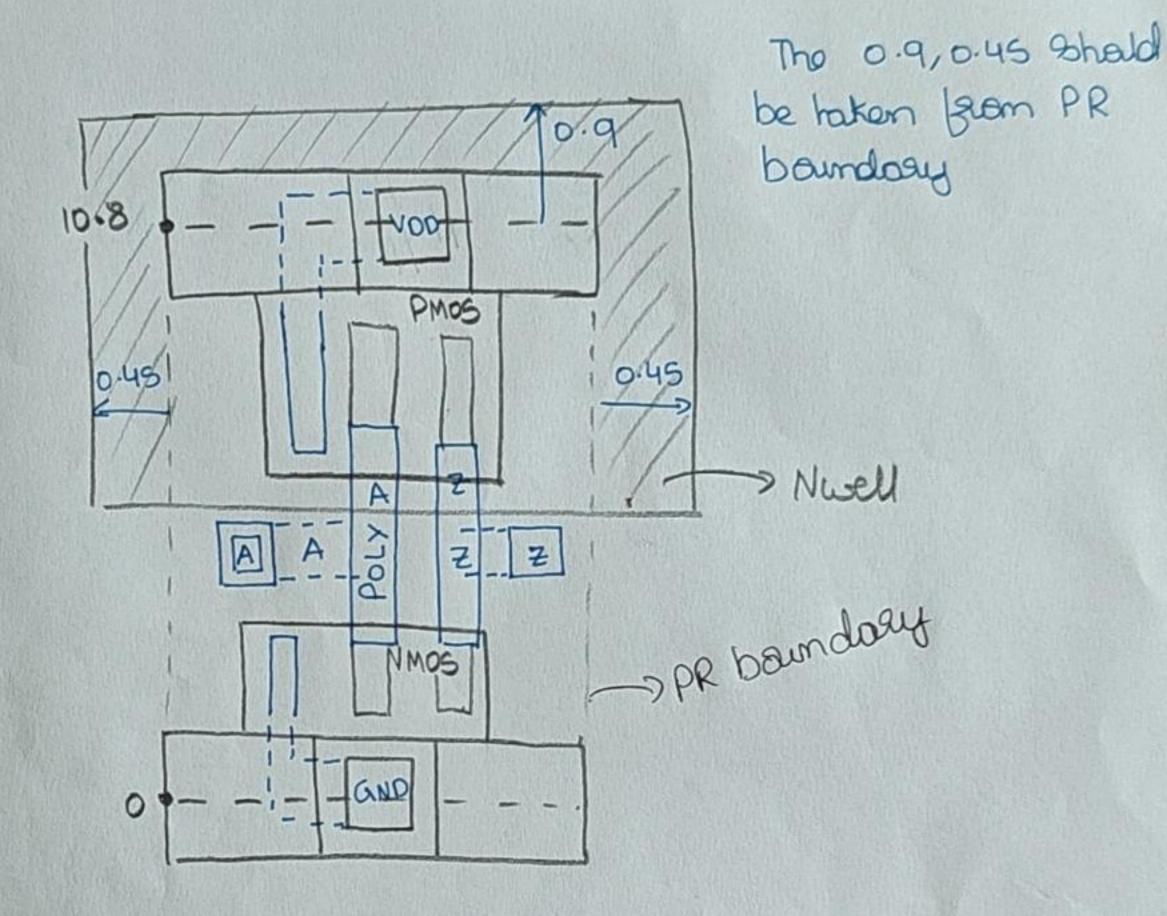


- dick hose at 1 - Place at the Bigin If placed usactly we will see a good awallab.



STEP 11: Greate Nwell Similarly search by Nwell (chase daw one) and deaw using e. 1 2.01 - -

height = 7.2 > by Nwell width = 4.5



Align the nwell as shown to complete the whole layed.

RUN DRC, LVS and Assusa to get the Avectsacted bile.