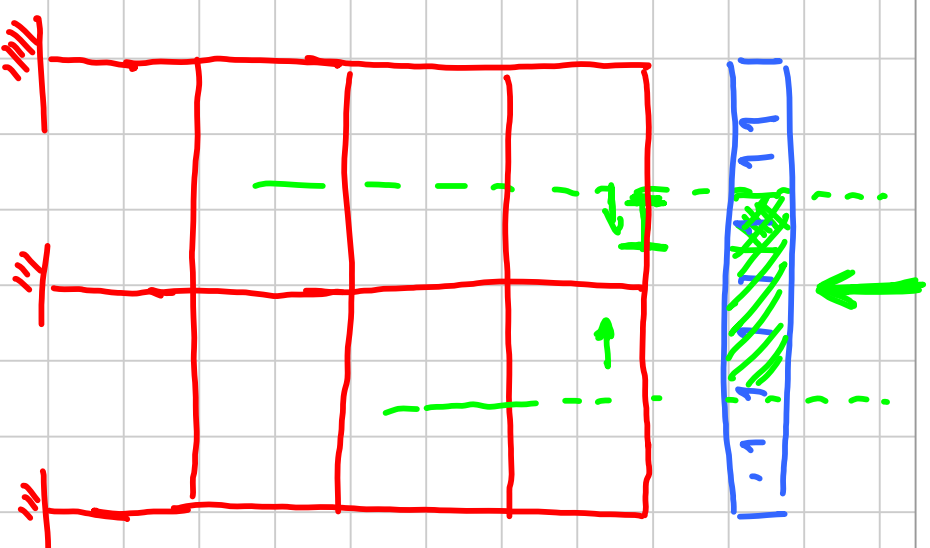
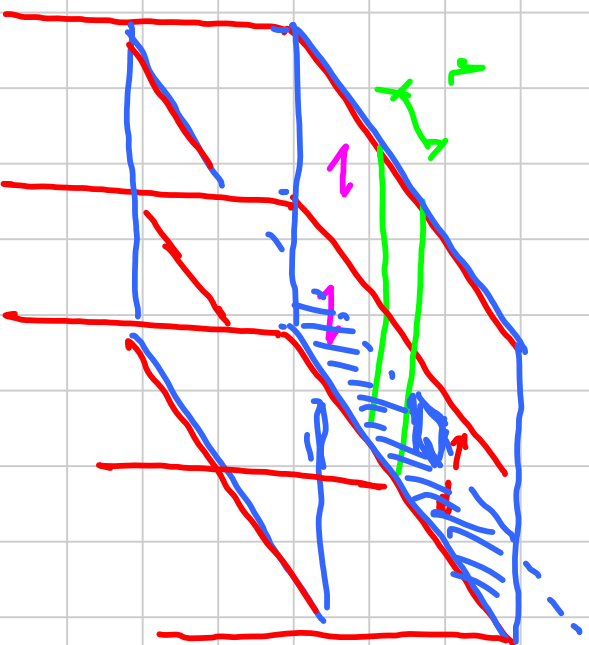
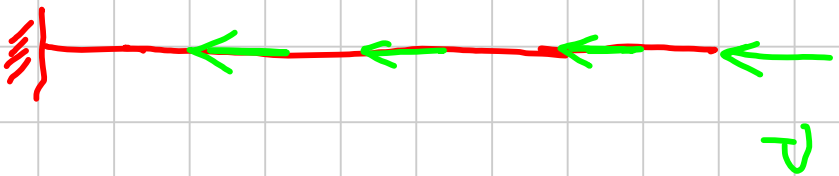


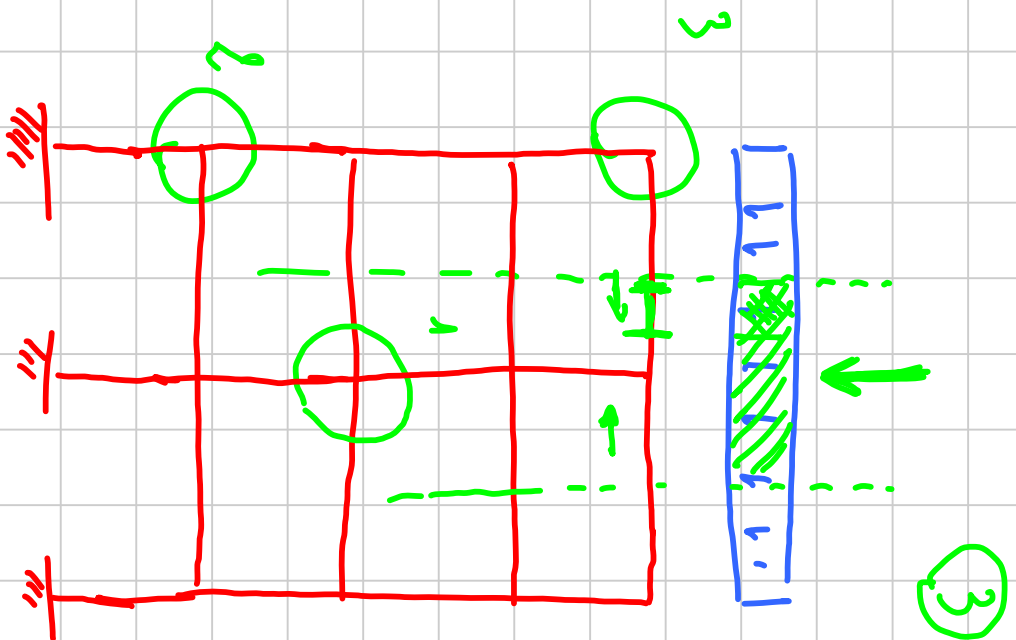
PILASTRI

Titolo nota

30/03/2015







\Rightarrow

$$H_{P1} = H_{E1}$$

$$\hookrightarrow H_{P1}$$

$$\hookrightarrow H_{E1}$$

$$H_{E1}$$

①

~~$$H_{P2}$$~~

$$\hookrightarrow H_{E2}$$

~~$$-H_{P1}$$~~

$$H_{E1} > H_{E2}$$

$$H_{P1}$$

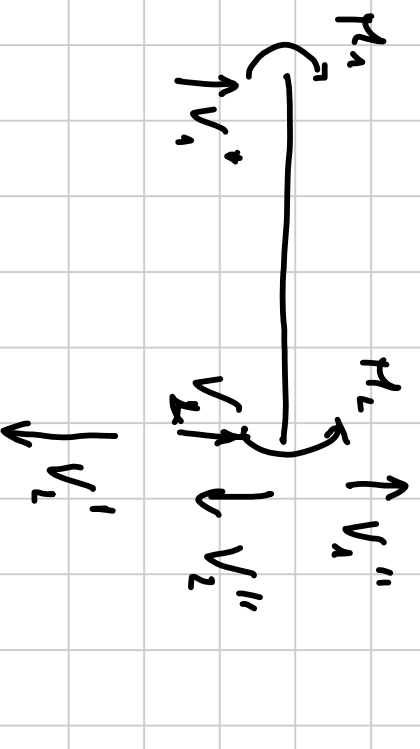
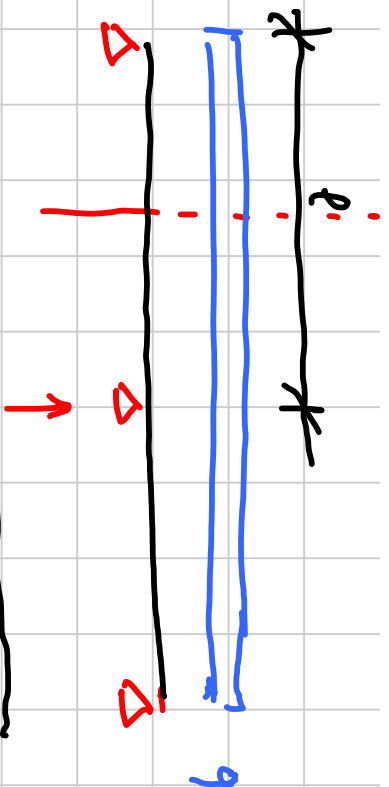
②

$$\hookrightarrow H_{E1}$$

$$H_{P1}$$

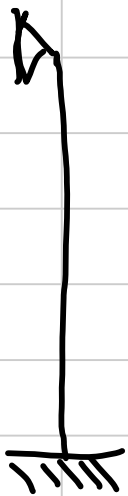
$$H_{P1} = H_{P2} =$$

$$\frac{H_{E1}}{2}$$



$$V_1' + V_2' = ql$$

$$V_2' = \frac{ql}{2} \quad ?$$

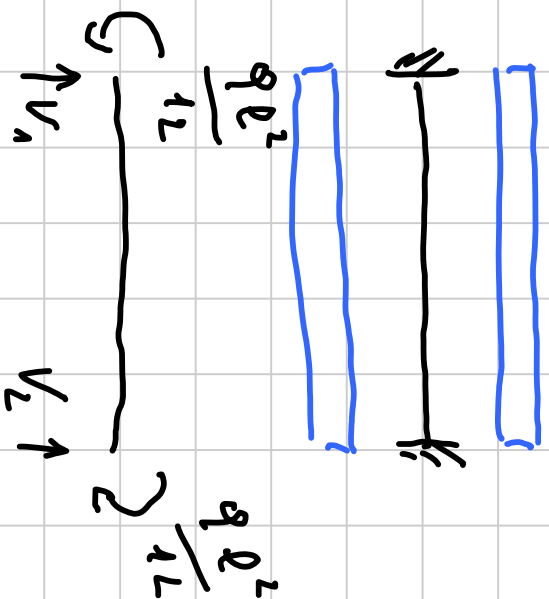


$$V_1 = \frac{3}{4} \frac{qL^2}{2} = 0.45 \frac{qL^2}{2}$$

$$V_2 = \frac{5}{4} \frac{qL^2}{2} = 1.25 \frac{qL^2}{2}$$

$$-V_1 x + \frac{qL^2}{2} - \frac{qL^2}{8} = 0$$

$$V_1 = \frac{qL^2}{2} - \frac{1}{4} \frac{qL^2}{2} = \frac{3}{4} \frac{qL^2}{2}$$



$$-V_1 \cancel{I_1} + \frac{qL}{12} \cancel{I_1} - \frac{qL}{12} \cancel{I_2} + \frac{qL}{2} I_2 = 0$$

$$V_1 = \frac{qL}{2} I_2$$

$$V_2 = \frac{qL}{2} I_2$$



H_1, H_2 negative



$$-V_1 + \frac{q_2}{C} - H_1 + H_2 = 0$$

$$|H_1| > |H_2|$$

$$V_1 = \frac{q_2}{C} - \frac{H_1 - H_2}{C}$$

$$> \frac{q_2}{C}$$

$$V_1 = \frac{q_2}{C} \quad \text{with } \frac{q_2}{C} > 1$$

$$V_2 = \frac{q_2}{C} + \frac{H_2 - H_1}{C}$$

$$< \frac{q_2}{C}$$

$$V_2 = \frac{q_2}{C} \quad \text{with } \frac{q_2}{C} < 1$$

$$H_1 = 5$$

$$H_2 = \frac{q_2}{1}$$



$$|H_1| < |H_2|$$

$$|H_2| = 0.5 |H_1|$$

 H_1
 H_2


$$V_1 = 0.75 \frac{q_2}{2}$$

$$d_1 = 0.75$$

$$0.8$$

$$V_2 = 1.25 \frac{q_2}{2}$$

$$d_2 = 1.25$$

$$1.2$$

$$V_1 = d_1 \frac{q_2}{2}$$

$$0.75 < d_1 < 1$$

$$0.8$$

$$d_1 = 1$$

$$d_1 = 0.9$$

$$V_2 = d_2 \frac{q_2}{2}$$

$$1 < d_2 < 1.25$$

$$d_2 = 1.1$$

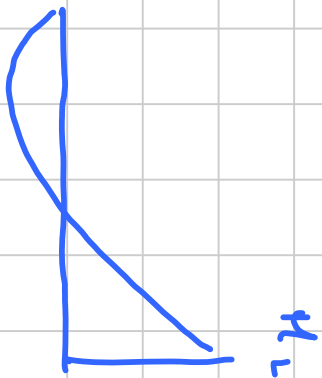
$$1.2$$

$$V_1 = \frac{q_2}{2}$$

$$d_1 = 1$$

$$V_2 = \frac{q_2}{2}$$

$$d_2 = 1$$



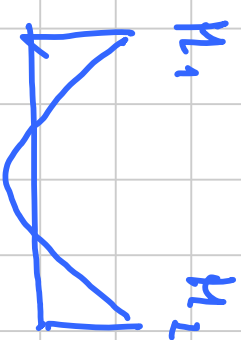
$$q_1 = 1, 0$$

$$q_L = 1, 2$$



$$q_1 = 1, 0$$

$$q_L = 1, 1$$

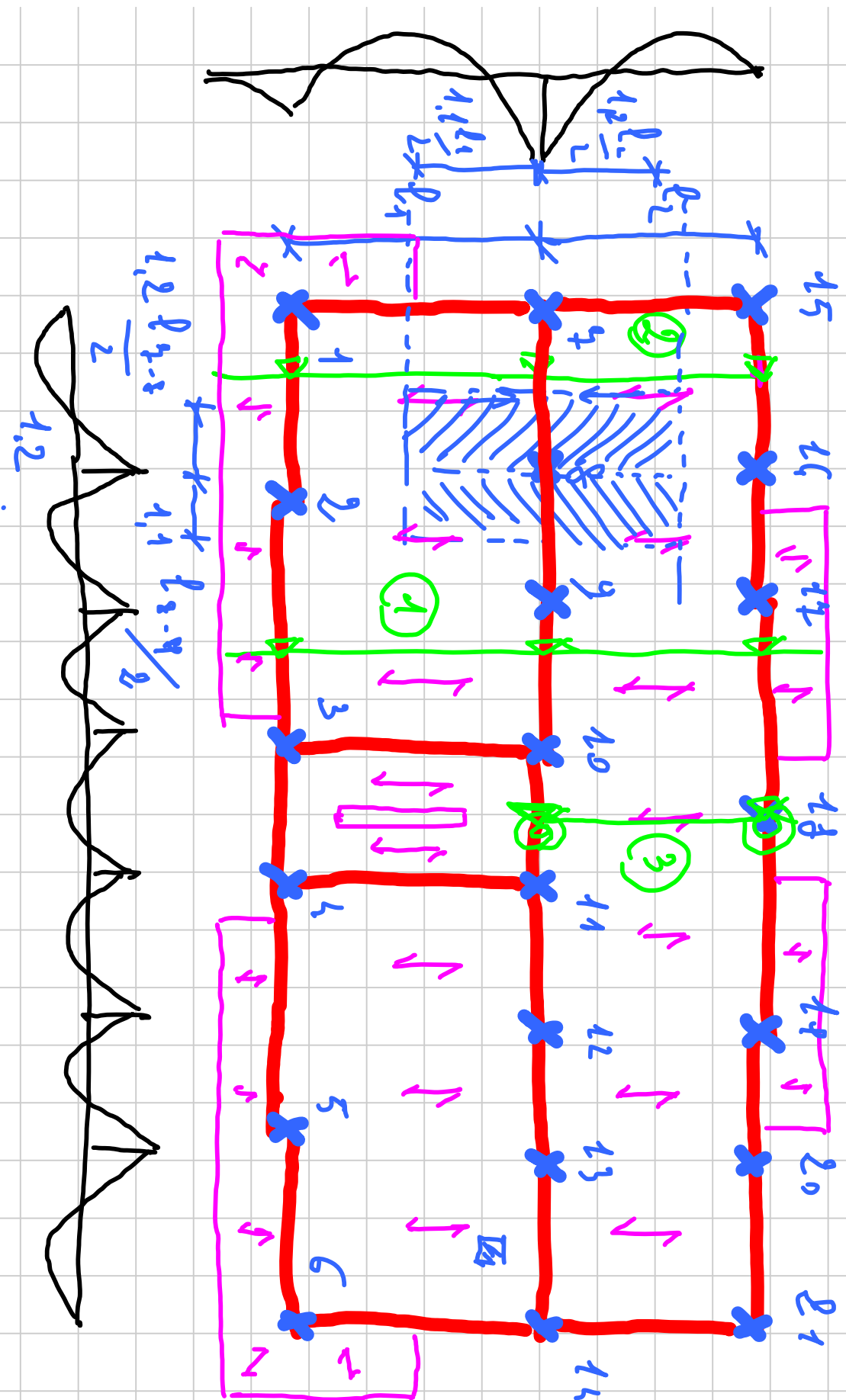


$$q_1 = 1, 0$$

$$q_v = 1, 0$$



$$q \begin{pmatrix} 1.1 \frac{f_1}{2} + 1.2 \frac{f_2}{2} \end{pmatrix}$$



$$\left(1.1 \frac{L_1}{2} + 1.2 \frac{L_2}{2}\right) q \left(\frac{L_{9-8}}{2} \times 1.2 + \frac{L_{8-9}}{2} \times 1.1 \right)$$

$$\left(1.1 \frac{L_1}{2} + 1.2 \frac{L_2}{2}\right) \left(1.2 \frac{L_{2-0}}{2} + 1.1 \frac{L_{8-9}}{2}\right) q$$

$$\boxed{P_{\text{solari}} = A_g q}$$

$$q = \cancel{g_d} + g_d$$

$$g_d + 0.8 g_d$$

17 hiam

hiem

7

9d

6

9d

5

0.79d

4

0.89d

3

0.49d

2

0.69d

1

0.59d



$$(1 + 1 + 0.1 + 0.8 + 0.4 + 0.6 + 0.5) 9d$$

7

11

~~0.89d~~

0.89d

Pile caps 8

A_i

Soluo

$$24,1 \text{ m}^2$$

Conc uniform

$$10,9 \text{ kN/m}^2$$

Conc

$$2629 \text{ kN}$$

$$A_s = \left(1,1 \times \frac{5,9}{2} + 1,2 \times \frac{5}{2} \right) \left(1,2 \times \frac{3,9}{2} + 1,1 \times \frac{2,9}{2} \right)$$

$$= 24,1 \text{ m}^2$$

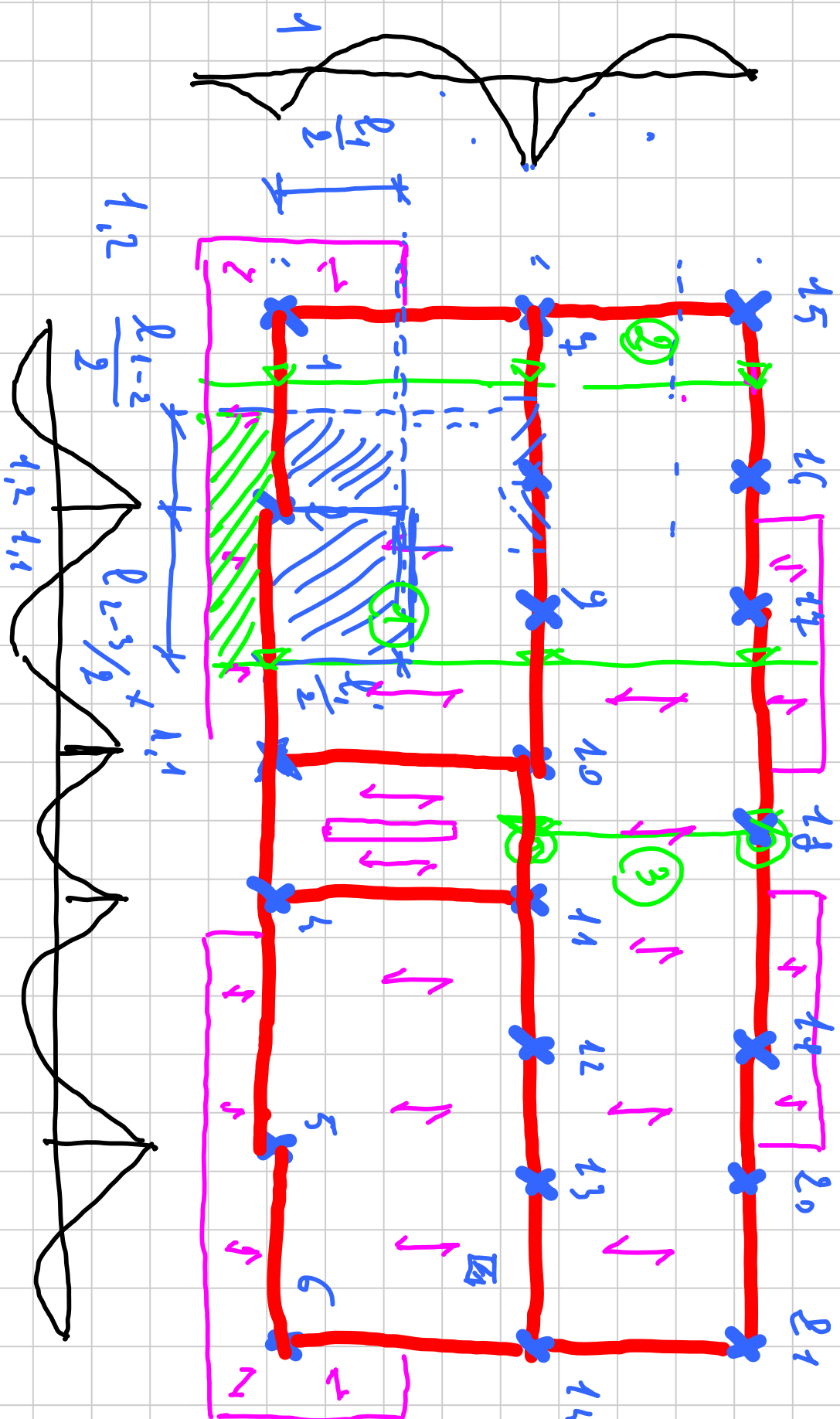
Conc

=

$$6,09 + 2,4 + 0,8 \times 3 = 10,9 \text{ kN/m}^2$$

sanitarios

per m mtr



Pilota 2

Avance
unifor.

Avance

Solaris

14,2

10,9

187,5

Bolcom

8,8

10,3

90,6

$(5,5 + 0,8 \times 6)$

$$\text{Solis} \quad \frac{5,4}{2} \times 1,2 \quad \frac{4,6}{2} + \frac{6}{2} \times 1,1 \times \frac{5,40}{2} = 14,2 \text{ m}^1$$

$$\text{Bolcom} \quad 1,65 \times 1,2 \quad \frac{4,6}{2} + 1,35 \times 1,1 \times \frac{5,4}{2} = 8,8 \text{ m}^2$$

Pilots 2

	Ai	Basic units	Basic
Solaris	14.2	10.9	187.5
Boleau	8.8	10.3	90.6
Tzan	5.9	3.69	21.8
Temkaturu	5.9	9.0	53.1

$$1.2 \times \frac{4.6}{2} + 1.1 \times \frac{5.7}{2}$$

Pile 2

	A_i	base unit	base
Solaris	14.2	10.9	187.5
Bolan	8.8	10.3	90.6
Tzan	5.9	3.69	21.8
Temkatur	5.9	9.0	53.1

353.0 kN

P.P. Pile 2 0.07×353 24.7 kN
374.4 kN

Pileata 8

A_i

Soluo

$$24,1 \text{ m}^2$$

Conc unitaria

$$10,9 \text{ kN/m}^2$$

Conc

$$262,9 \text{ kN}$$

Terra

$$3,93 \text{ m}$$

$$3,69$$

$$14,5 \text{ kN}$$

$$1,2 \times \frac{3,9}{2} + 1,1 \times \frac{2,9}{2}$$

$$\underline{244,2 \text{ kN}}$$

Per profun-

hidrat

$$0,04 \times 244,2$$

$$19,4 \text{ kN}$$

$$\underline{296,6 \text{ kN}}$$