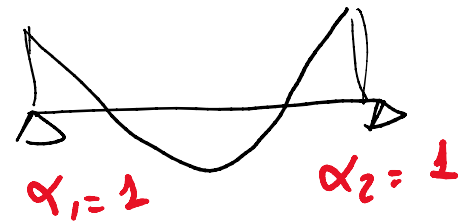
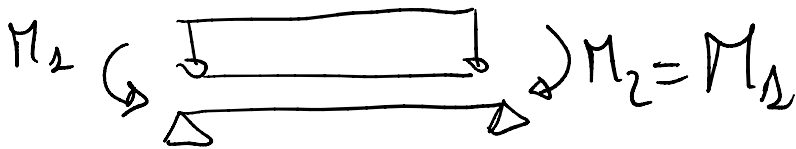
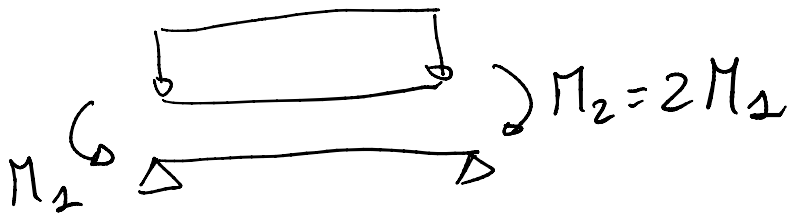
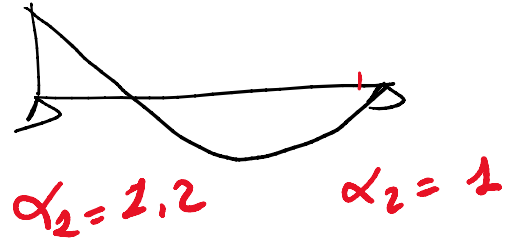
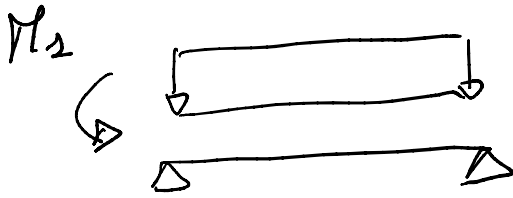


COEFF. DI CONTINUITA'

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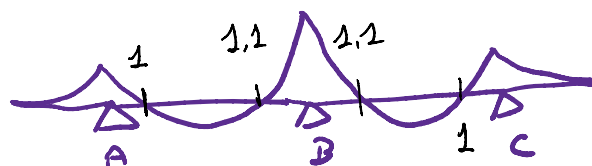
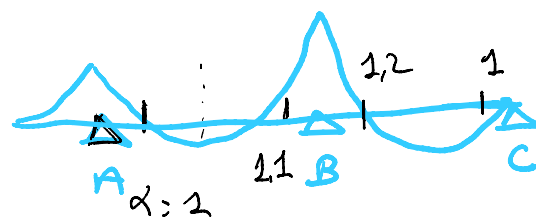
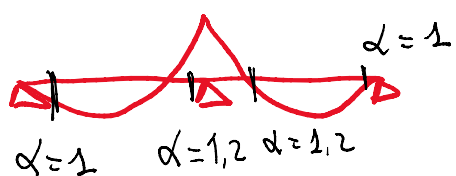
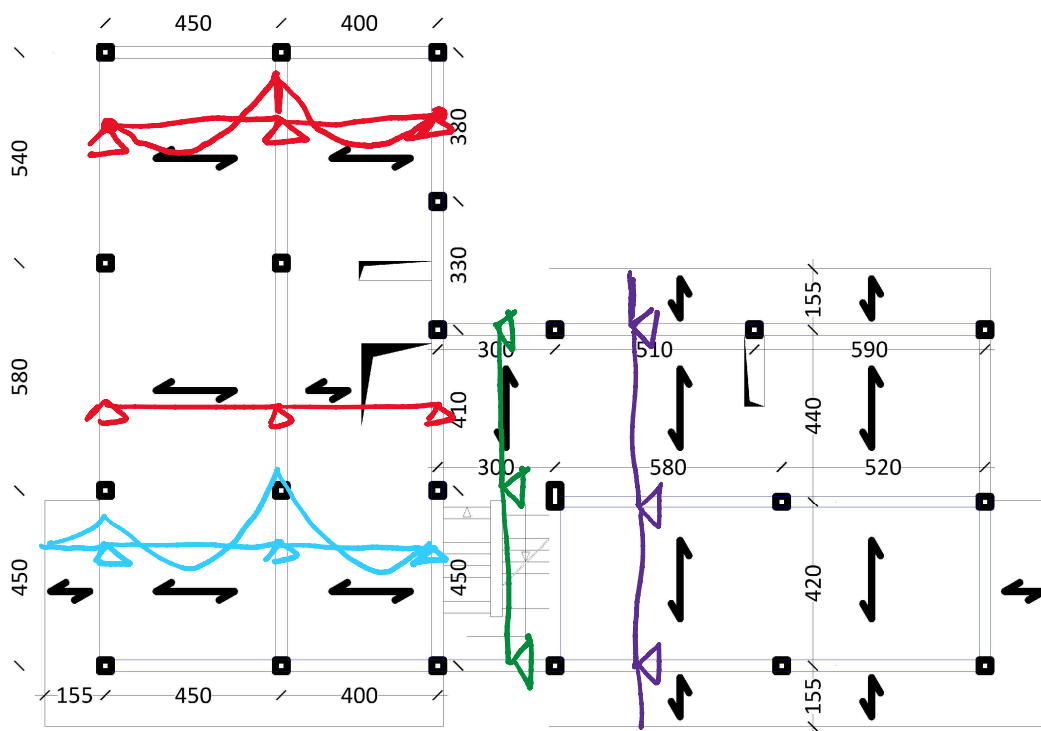
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RIEPILOGO CASI CONSIDERATI



SCHEMI STATICI SOLAIO

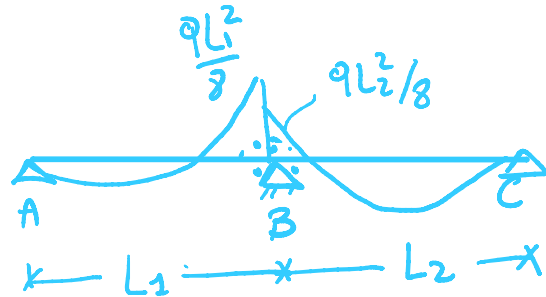
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RAGIONAMENTO SUL DIAGRAMMA DEI MOMENTI



IN ASSENZA DI SBALZO



EFFETTO DELLO SBALZO

$$\Rightarrow M_A = \frac{qL^2}{2} \Rightarrow \begin{matrix} \text{Diagramma} \\ \text{di momento} \end{matrix} \Rightarrow M_B = -M_A/2$$

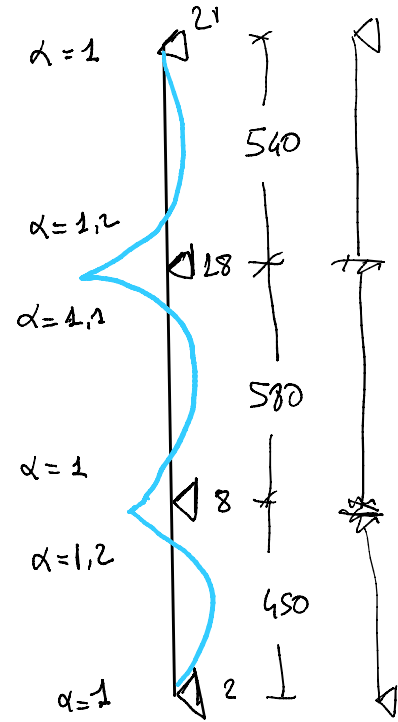
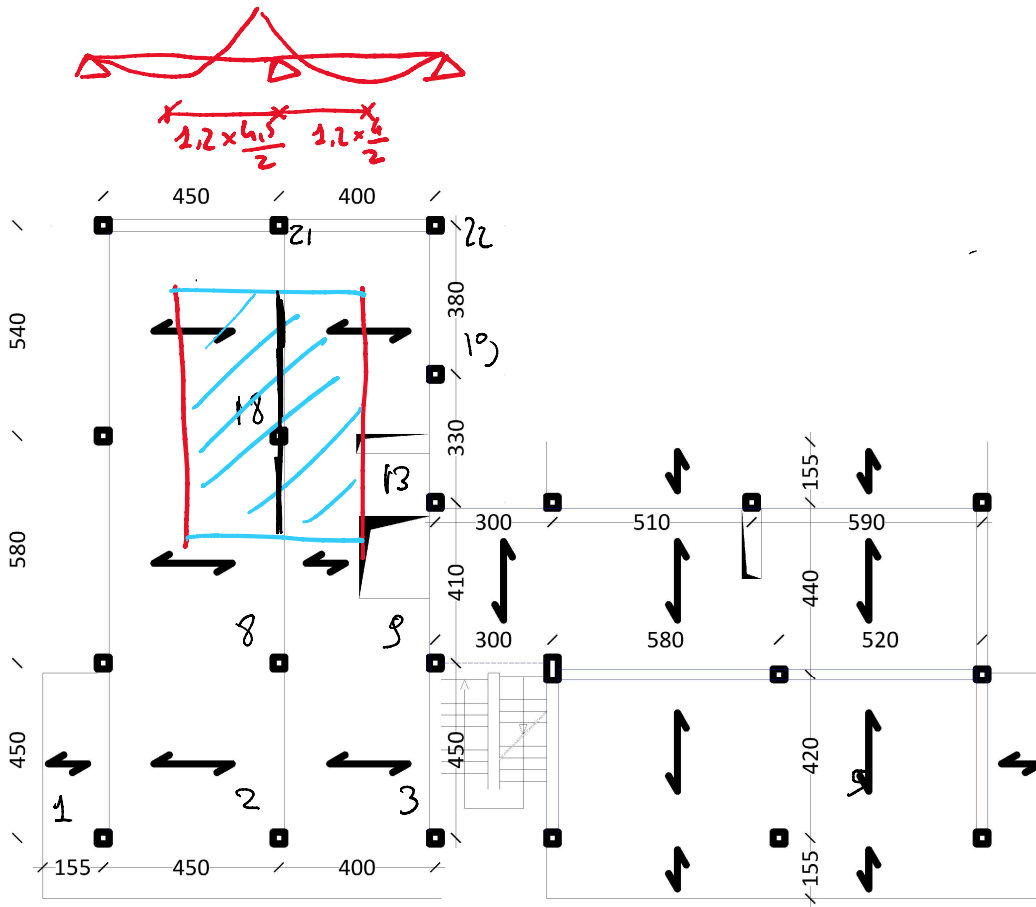
STIMA MOMENTI

$$M_A = q \times \frac{1,55^2}{2} = \frac{q}{2} = 2,4 \frac{q}{2}$$

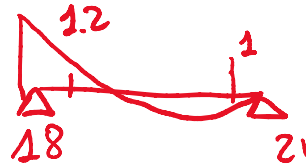
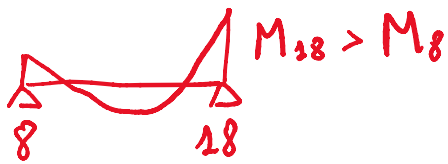
$$M_B = \frac{M_B^{sx} + M_B^{dx}}{2} = \frac{q \times \frac{4,5^2}{8} - q \times \frac{1,55^2}{4} + \frac{q \times 4,0^2}{8}}{2} = \frac{q}{2} \cdot 3,93$$

$$\Rightarrow M_B > M_A \quad (\text{UN PÒ MINORE DI } 2M_A)$$

AREA PIASTRO 18



TRATTO 8-18



PILASTRO 18 : CARICHI

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CARICO	$q_{dmax} + q_d$ KN/m ²	AREA (m ²)	F_i KN $A \times (q_d + q_{dmax})$
SOLAIO	8,69 + 3,00	$(1,2 \times \frac{4,5}{2} + 1,2 \times \frac{4}{2}) \times (1,2 \times \frac{5,4}{2} + 1,1 \times \frac{5,80}{2})$ $= 32,8 \text{ m}^2$	383,4 KN
BALLONE		0,00	0,00
SCALA		0,00	0,00
PESO TRAVE	G_d KN/m 4,72	LUNGHEZZA (m) $1,2 \times \frac{5,4}{2} + 1,1 \times \frac{5,80}{2} = 6,43$	$6,43 \times 4,72$ $= 30,35 \text{ KN}$
TAMPONATURA		0	0,00

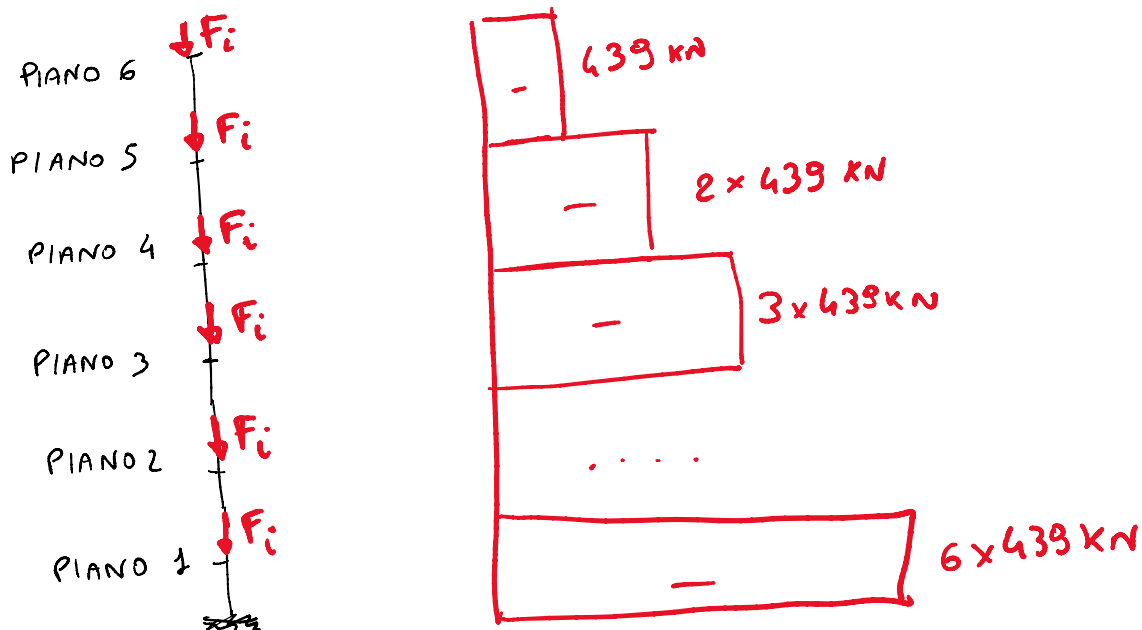
$$\text{TOTALE} = 383,4 + 30,35 = 414 \text{ KN}$$

STIMA PESO PROPRIO PILAISTRO

$$\frac{N_{PIANO}}{100} \times \bar{F}_{TOT, PIANO} = \frac{6}{100} \times 414 = 24,8 \text{ KN}$$

$$\Rightarrow F_i = 414 + 24,8 = 439 \text{ KN}$$

SFORZO NORMALE SUL PILAISTRO

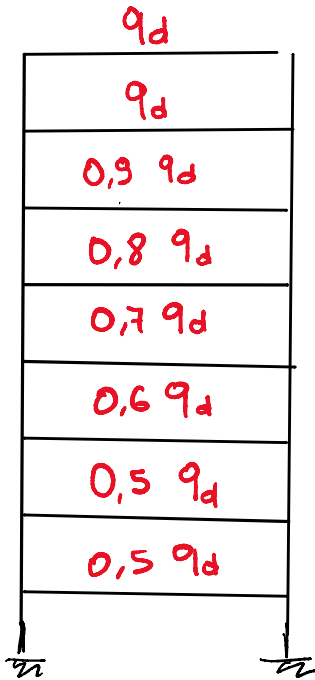


CONSIDERAZIONI

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DISTRIBUZIONI IN ALTEZZA DEI CARICHI VARIABILI

INDICAZIONI USATE IN PASSATO



$$q_{dm} = \frac{q_d + q_d + 0,9q_d + 0,8q_d + \dots + 0,5q_d + 0,5q_d}{N \text{ PIANI}}$$

\Rightarrow A TUTTI I PIANI $q_d + q_{dm}$

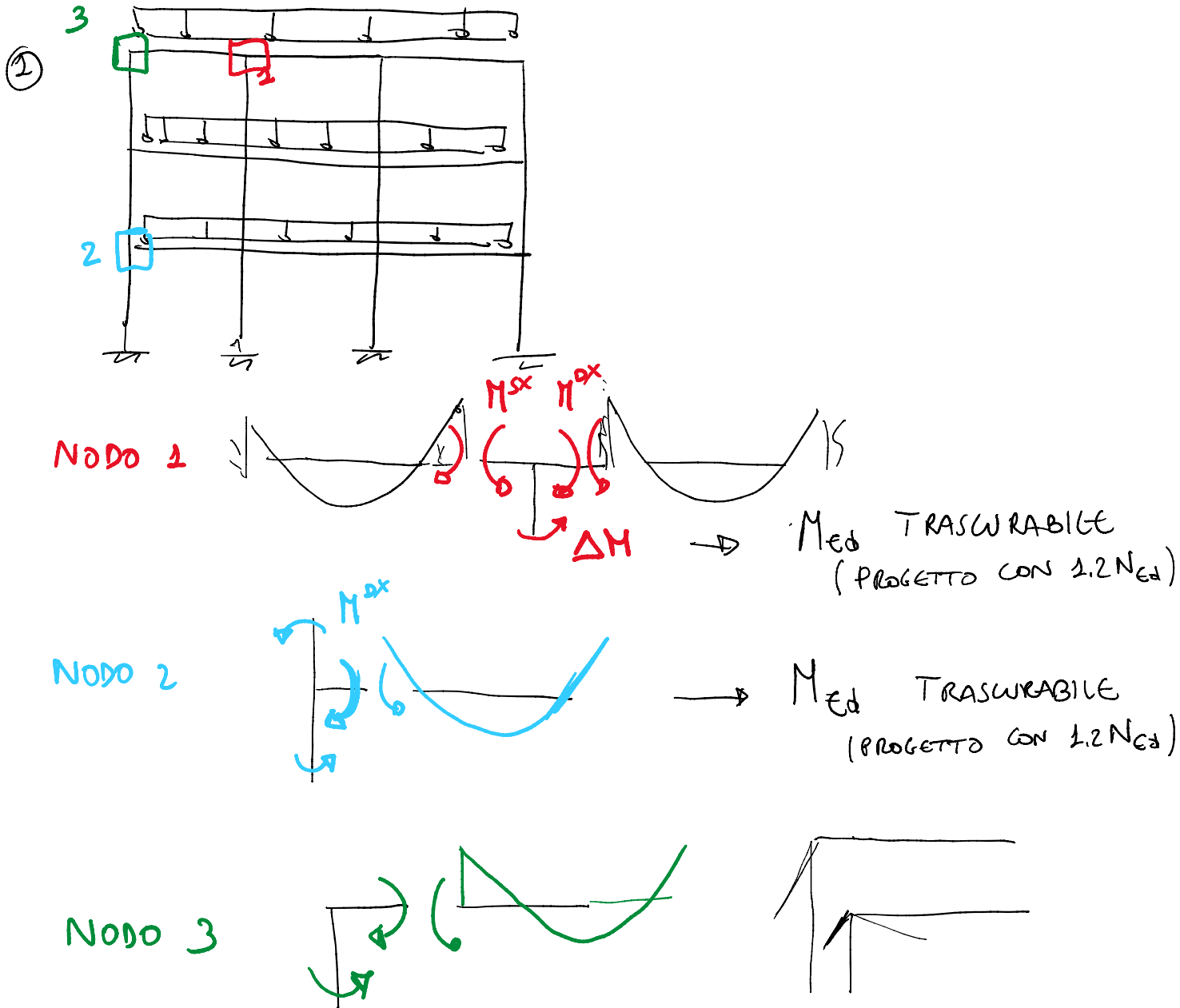
CONSIGLIO

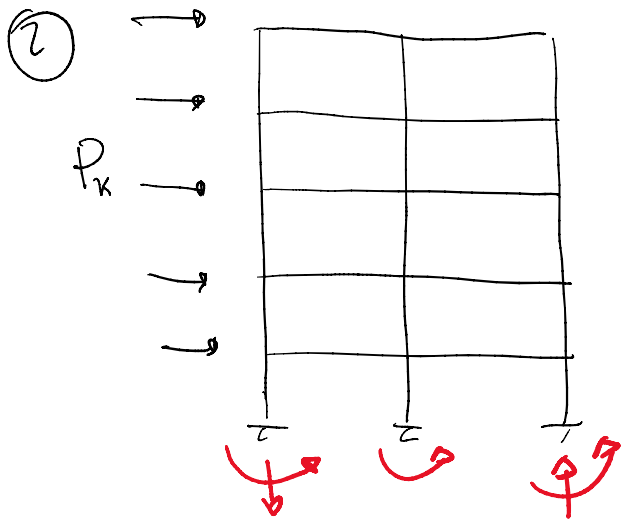
q_d A TUTTI I PIANI

M_{Ed} TRASCURABILE ?

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- 1) M_{Ed} DA CARICHI VERTICALI
- 2) M_{Ed} DA AZIONI ORIZ. (ES. VENTO)





M_{Ed} NON TRASCURABILE

↓
 PROGETTO CON $1.2 N_{Ed}$

+
 INCREMENTO $A_{c,NEC}$, $A_{s,NEC}$

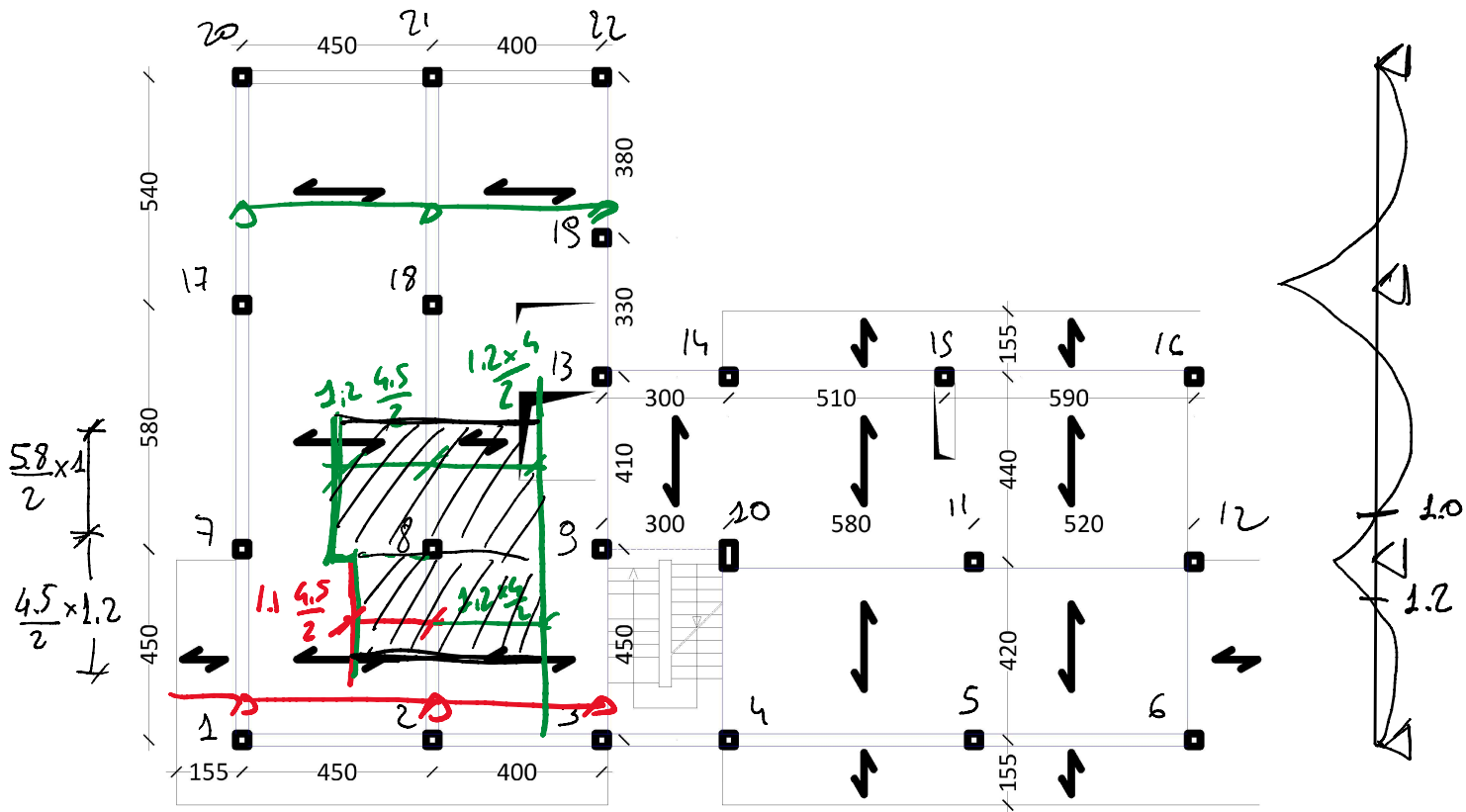
SE $P_k \approx 1.5 \text{ kN/m}^2 \Rightarrow$

$1.2 A_{c,NEC}$; $1.2 A_{s,NEC}$

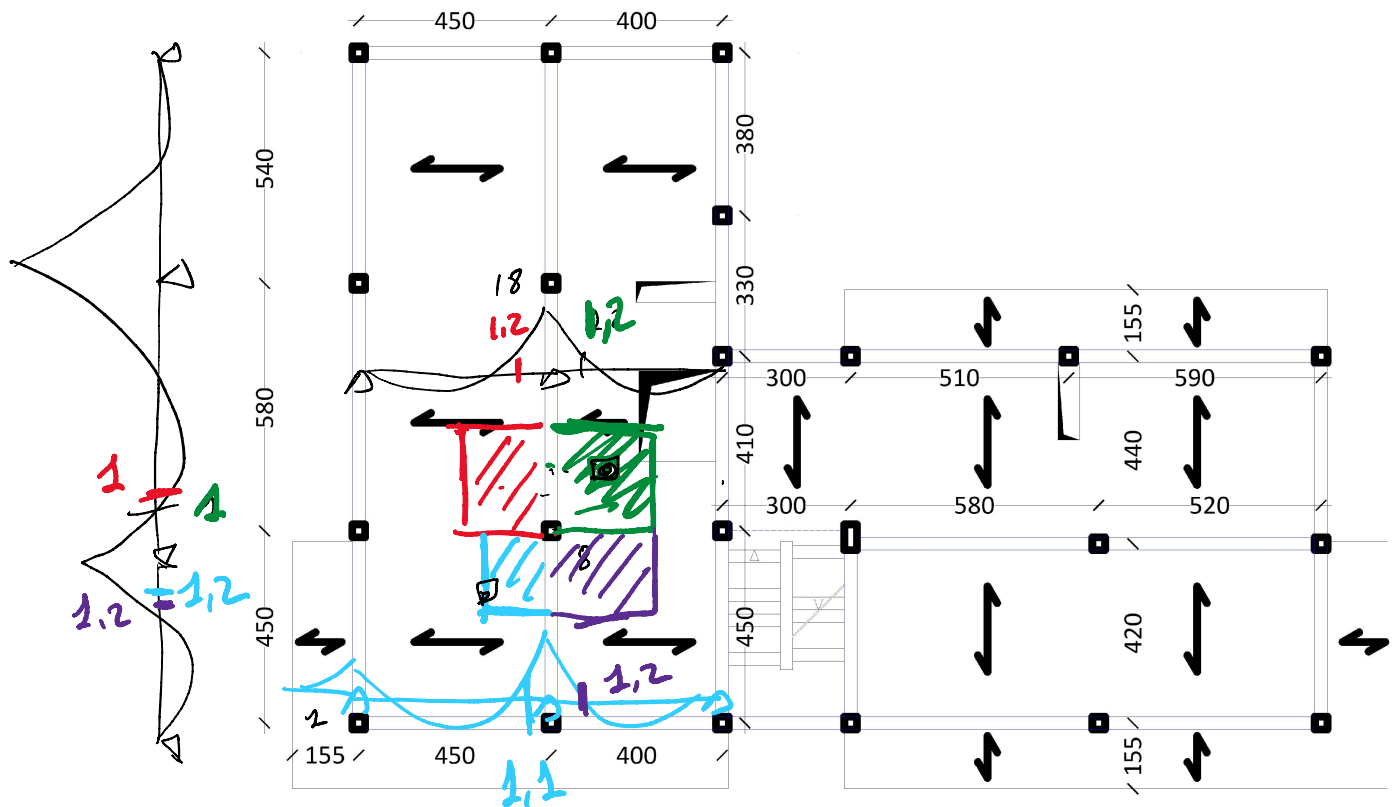
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15:11



RAGIONAMENTO CON QUADRANTI



$$A_1 = \frac{4}{2} \times 1,2 \times \frac{5,80}{2} \times 1 = 6,96$$

$$A_2 = \frac{4,5}{2} \times 1,2 \times \frac{5,8}{2} \times 1 = 7,83$$

$$A_3 = \frac{4,5}{2} \times 1,2 \times \frac{4,50}{2} \times 1,2 = 6,7$$

$$A_4 = \frac{4,0}{2} \times 1,2 \times \frac{4,50}{2} \times 1,2 = 6,48$$

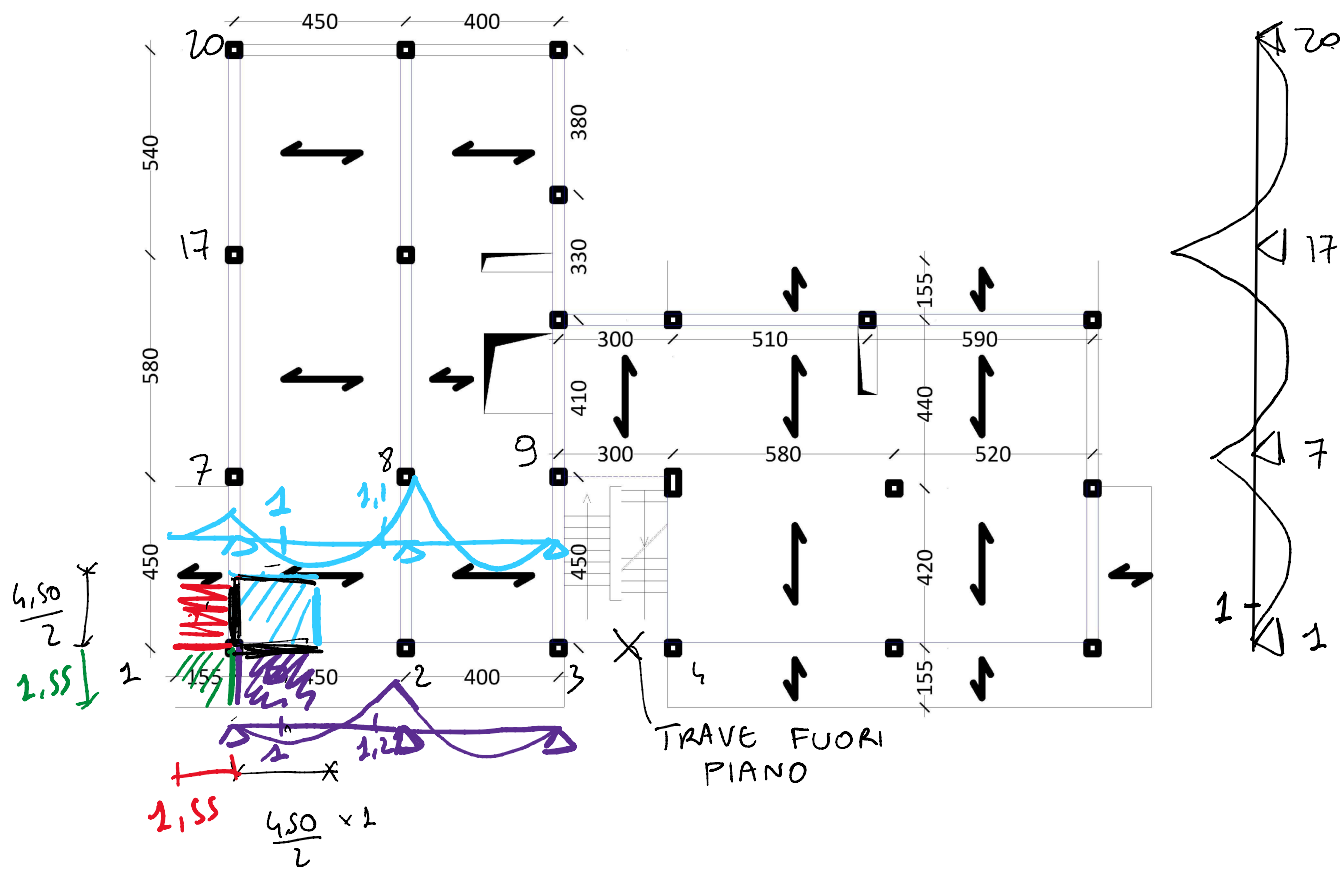
$$A_{\text{pil. 8}} = 28 \text{ m}^2$$

CARICO AL PIANO (PILASTRO 8)

CARICO	$q_d + q_d$	AREA	F_i
SOLAI	... KN/m^2	28 m^2	...
PESO TRAVE	G_d	LUNGH.	$L \times G_d$
+ PESO PROPRIO PILASTRO	$4,72 \text{ KN/m}$	$\frac{4,5}{2} \times 1,2 + \frac{5,8}{2} \times 1$	

PILASTRO 1

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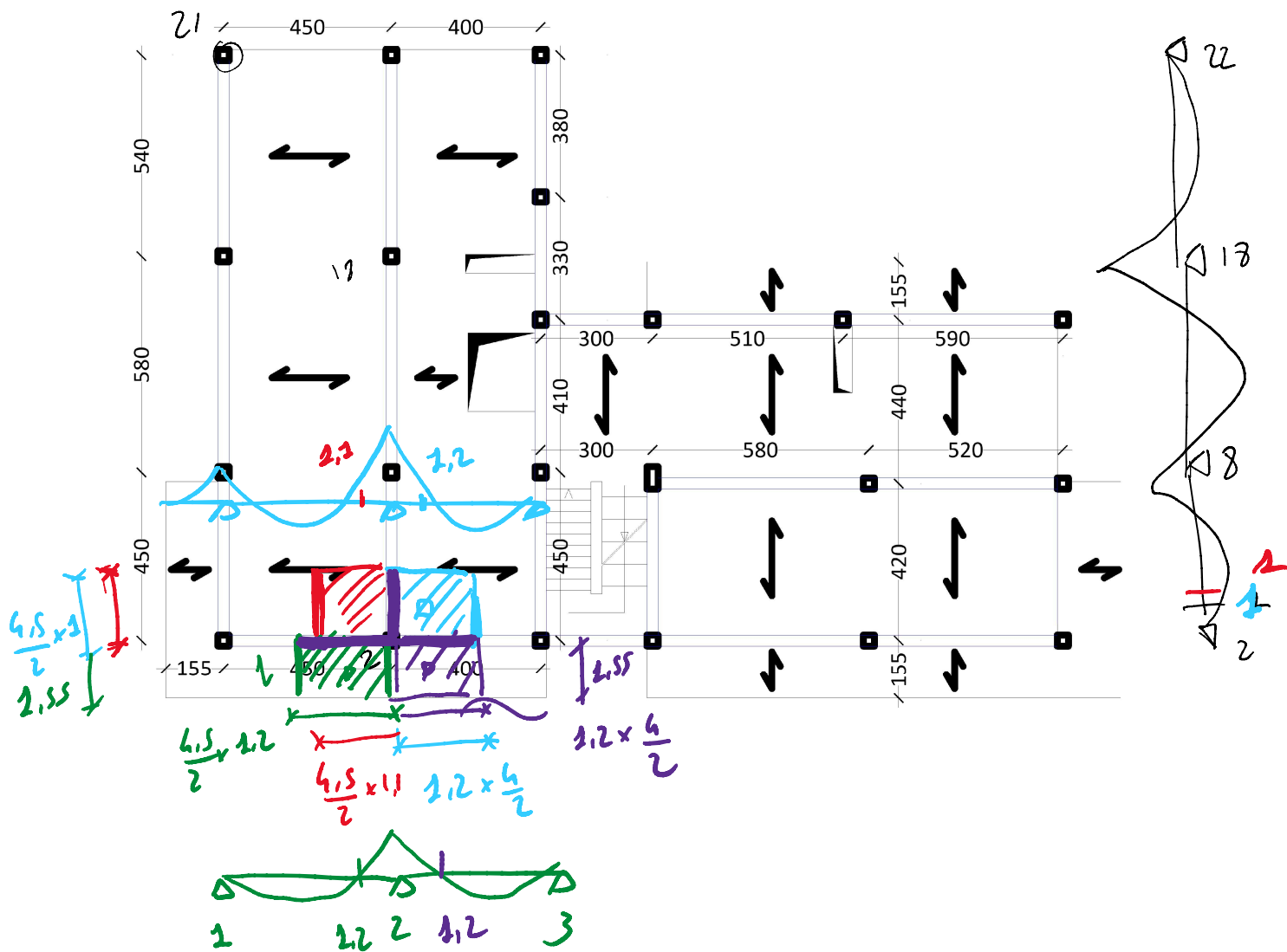


CARICO	$q_d + q_a$	AREA	F_i $(q_d + q_a) \times A$
SOLAIO	11,69 kN/m ²	$\frac{4,5}{2} \times 1 \times \frac{4,5}{2} \times 1$	
BALCONE	5,59 + 6,71	$\frac{4,5}{2} \times 2 \times 1,55 + 1,55 \times 1,55 + \frac{4,5}{2} \times 1 \times 1,55$	
PESO TRAVE	4,72 kN/m	$L = \frac{4,50}{2} \times 1 + \frac{4,50}{2} \times 1$	$G_d \times L$
TAMPONAT.	6,57 kN/m	$L = \frac{4,50}{2} \times 1 + \frac{4,50}{2} \times 1$	$G_d \times L$

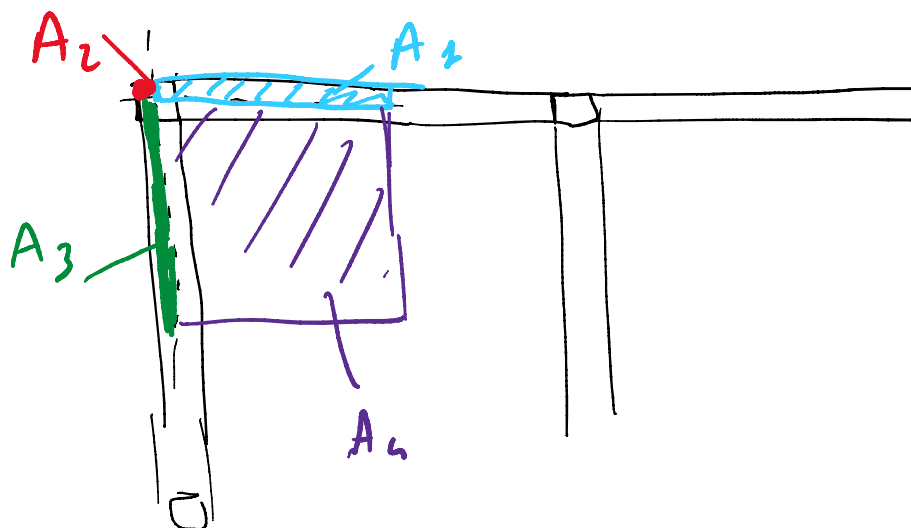
+ PESO PROPRIO = $\frac{6}{100} \times \text{TOT}$ ← TOT

PILASTRIO 2

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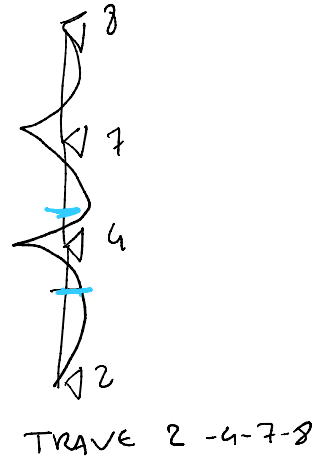
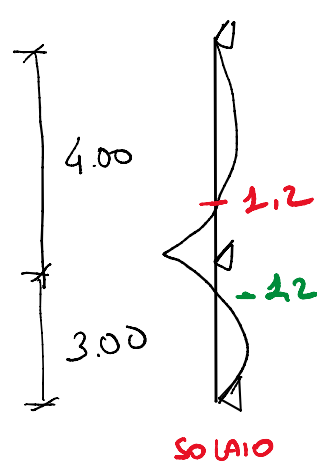
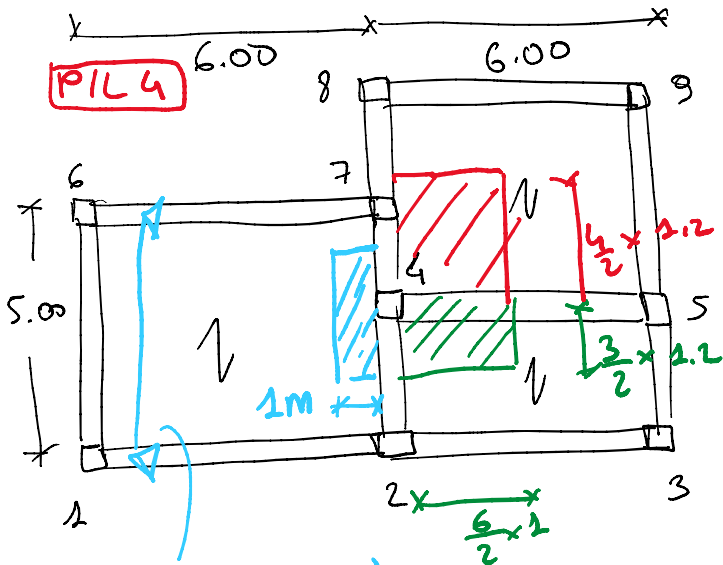
PILASTRIO 21



CASO PARTICOLARE

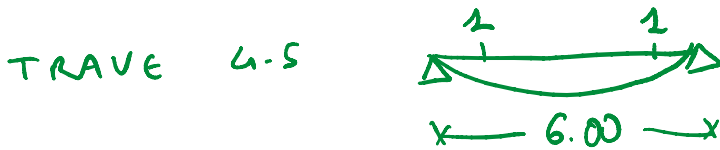
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19:04



SOLAIO CHE NON GRAVA SUL PILASTRO 4

(SI CONSIDERA SOLO UNA ZONA LARGA 0.50m ÷ 1m PER CONTINUITA' DI GETTO)
TRASMESSA DALLA TRAVE 2-4-7-8



PIL 7

