




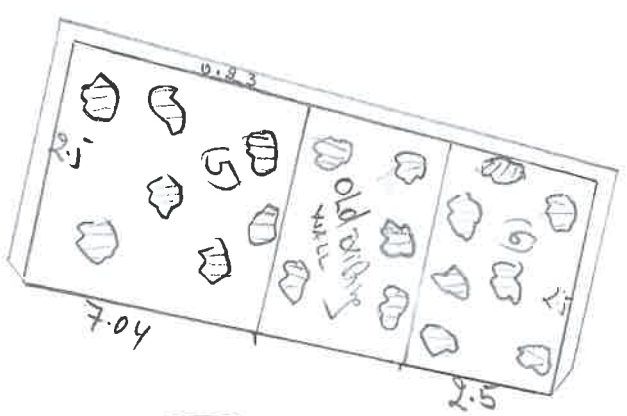
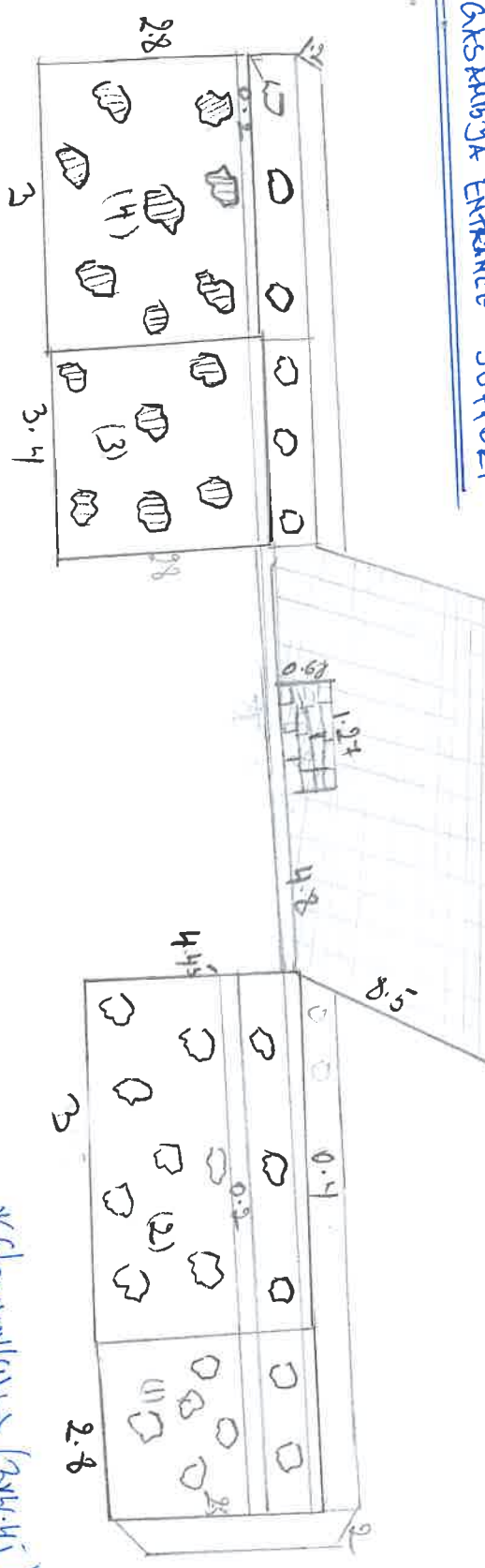


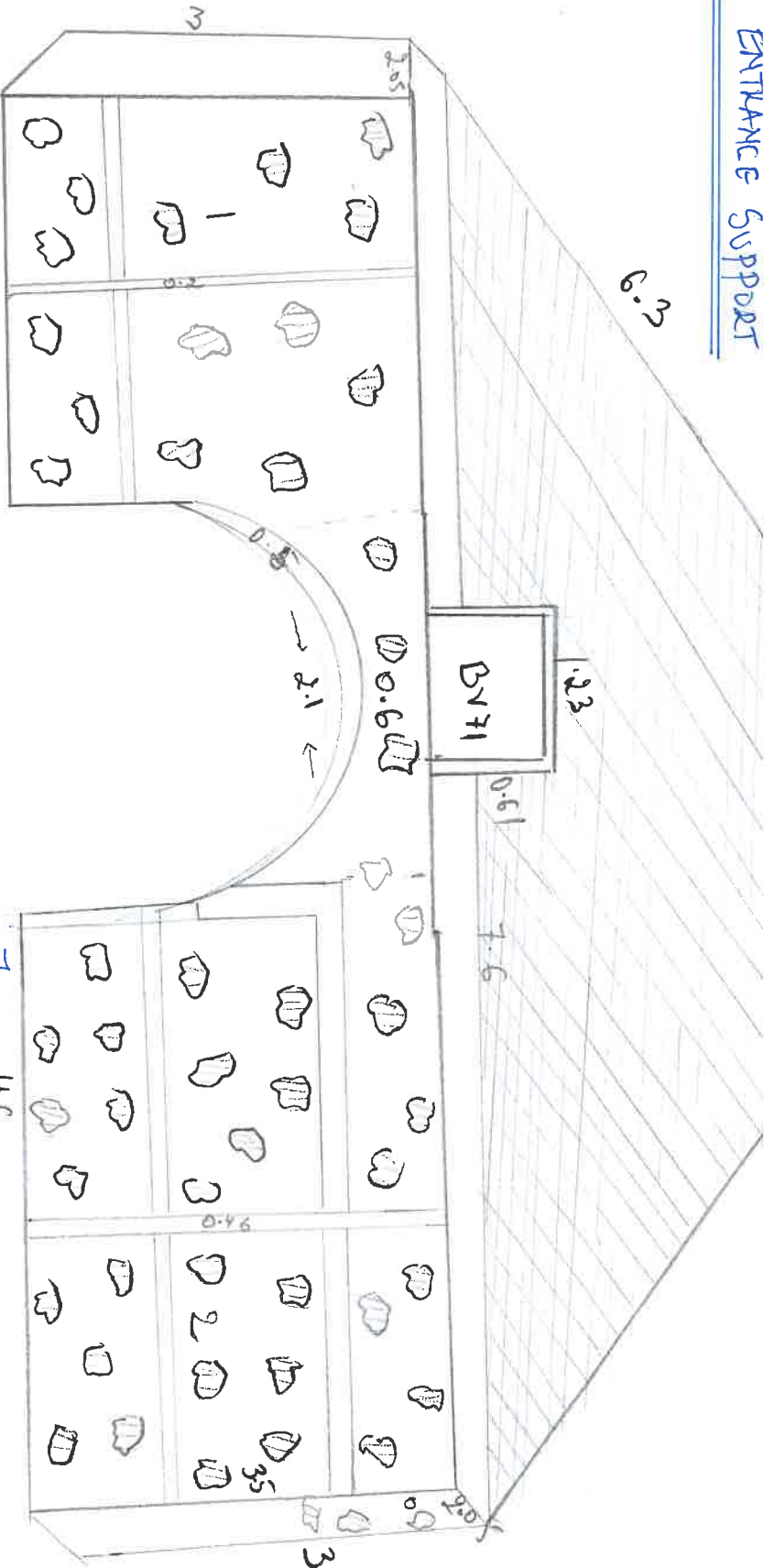
APPROVAL OF CONSTRUCTION WORK AT RUTONGO

NAMES	POSITION	SIGNATURES
EPIPHANIS MURORO NYAMERU	Sr Surveyor	
Isaac od Njorwe	N/In-charge Manager	
KATIIRARA Kevin	OHS Supervisor	
KABARISA Kelly	Procurement Officer	
Kegzi ALIENZA	Eng & Maint. Manager	



- * Stonewall (1) $\Rightarrow (3.4 \times 4.1) + (2.8 \times 2.5) = 20.35$
- * Stonewall (5) $\Rightarrow (3 \times 2.8) + (3.4 \times 2.8) = 17.92$
- * Stonewall (5) $\Rightarrow (2.5 \times 7.04) + (2.5 \times 2.5) = 23.85$
- * Stonewall (7) $\Rightarrow (7.05 \times 1.7) = 11.985$
- Total Stonewall = 74.105 m² = 11.985 m²
- * Concrete with steel $\Rightarrow (4.2 \times 8.5) = 40.8 \text{ m}^2$
Reinforced masonry casting
- * Brick wall $\Rightarrow (1.27 \times 0.68) = 0.864 \text{ m}^2$
- * Concrete without steel = $(0.4 \times 5.8) + (2 \times 4.1) + (1.2 \times 6.4) + (0.2 \times 6.4) + (0.2 \times 5.8)$
 $\Rightarrow (0.23 \times 9.04) = 2.0772 \text{ m}^2$
- Plastering = $74.105 + 40.8 + (0.864 \times 2) + 22.52 = 139.1 \text{ m}^2$

MATHS 11 ENTRANCE SUPPORT



$$\# \text{ Show wall} = [(7.6 \times 3) + (2.1 \times 0.6) + (4.6 \times 3.5) + (2.05 \times 3) + (6.5 \times 2.77) \times 2] = \underline{82.32 \text{ m}^2}$$

$$\# \text{ Concrete} = (6.3 \times 7.7) = \underline{48.51 \text{ m}^2}$$

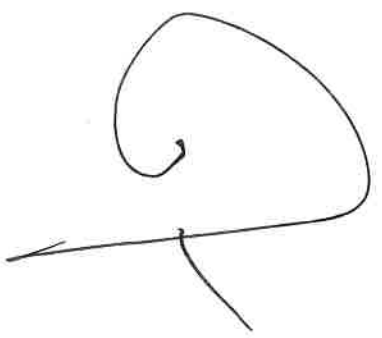
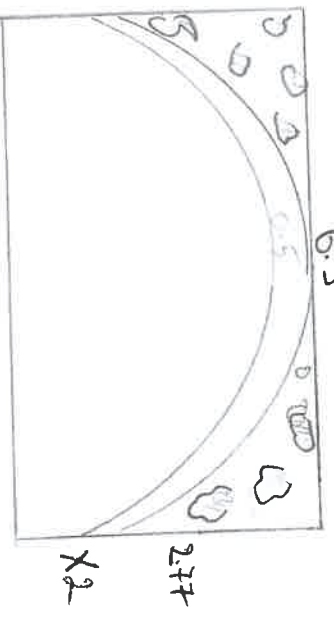
$$\# \text{ Plaster work} = (1.23 \times 0.61) = \underline{0.75 \text{ m}^2}$$

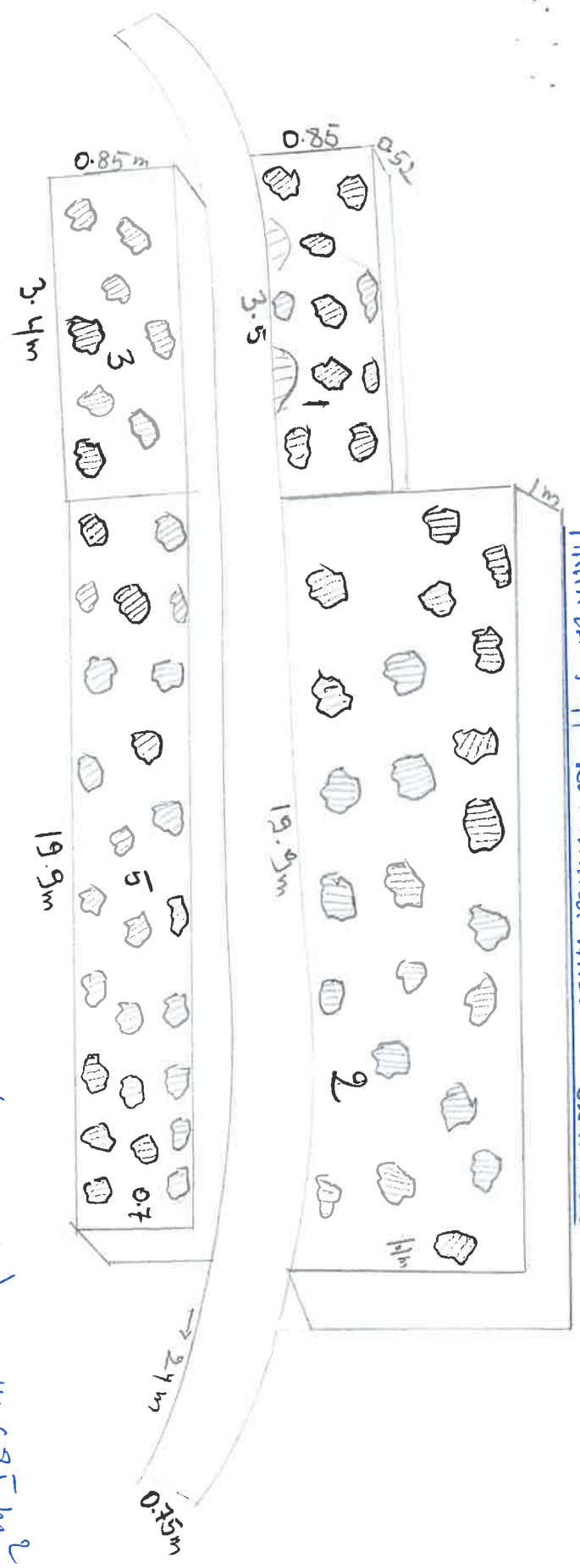
$$\# \text{ Brick wall} = (1.23 \times 0.61) = \underline{0.75 \text{ m}^2}$$

$$\# \text{ Concrete} = [(3 \times 2.05) + (0.2 \times 3) + (0.2 \times 7.6) + (4.6 \times 0.46) + (0.61 \times 0.2) \times 2 + (1.23 \times 0.2) \times 2 + (0.5 \times 2.77)] = \underline{12.472 \text{ m}^2}$$

$$\text{Plastering} = 82.32 + 48.51 + 0.75 + 12.472$$

$$\underline{144.052 \text{ m}^2}$$





* Spawning 1-5 = $(0.85 \times 3.5) + (19.9 \times 1.1) + (0.85 \times 3.4) + (19.9 \times 0.7) = 41.685 \text{ m}^2$

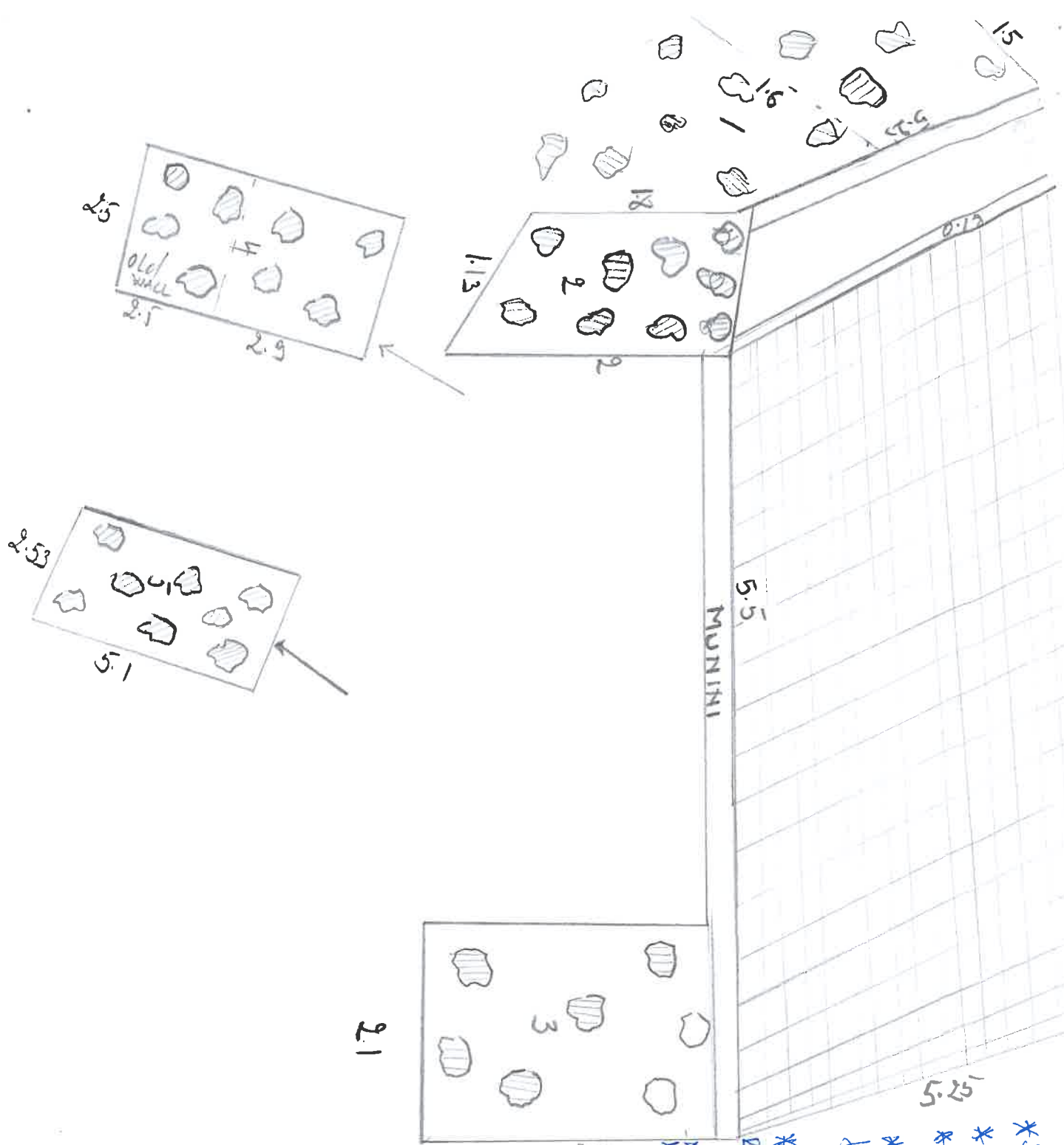
$\pm (19.9 \times 0.5 + 13.4 \times 0.5) + (0.7 \times 0.5) = 57.9$

* Grate = $(24 \times 0.75) + (1 \times 19.9) + (1.2 \times 1) + (0.52 \times 3.5) = 39.605 \text{ m}^2$

* Purling = $41.685 + 57.92 = 99.605 \text{ m}^2$

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MUNINI MAHAZKA TUNNEL ENHANCE SURFACE



* Stormwall 1 = $(5.25 \times 1.63) = 8.56 \text{ m}^2$

* Stormwall (2) = $(1.13 \times 2) = 2.26 \text{ m}^2$

* Stormwall (3) = $(2.67 \times 2.1) = 5.607 \text{ m}^2$

* Stormwall (4) = $(2.5 \times 2.5) = 6.25 \text{ m}^2$

* Stormwall (5) = $(2.53 \times 5.1) = 12.9 \text{ m}^2$

ford " = 35.58 m^2

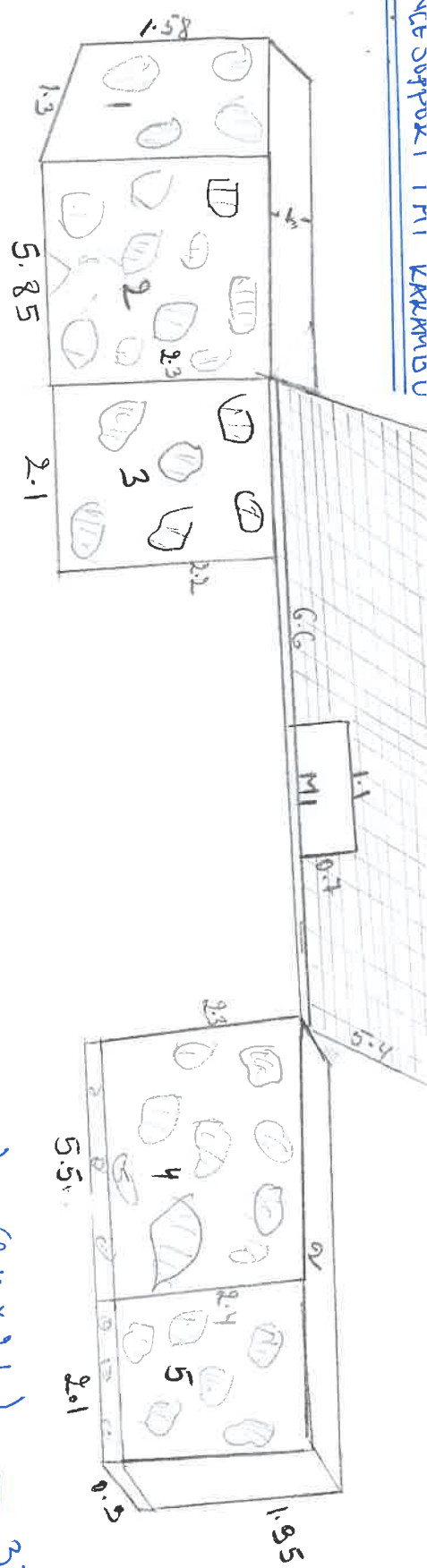
* concrete = $(5.5 \times 5.25) = 28.875 \text{ m}^2$

Reinforce and MIX and
Casting = $(35.58) + (28.875) +$

* plus Reinforce
X concrete reinforcement = 15.25×0.181

= 65.4 m^2





* Stenwand = $(1.3 \times 1.58) + (5.85 \times 2.3) + (2.1 \times 2.2) + (5.5 \times 2.3) + (2.4 \times 2.1) = 37.819 \text{ m}^2$
 (1-5)

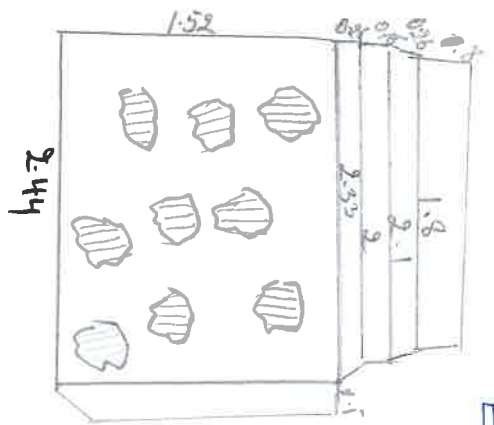
* Gönwede und Beisprache MUX = $(6.6 \times 5.4) = 35.64 \text{ m}^2$

* Gönwede without = $(1.2 \times 1.3) + (5.85 \times 1.1) + 1.82 = 1.82 \text{ m}^2$

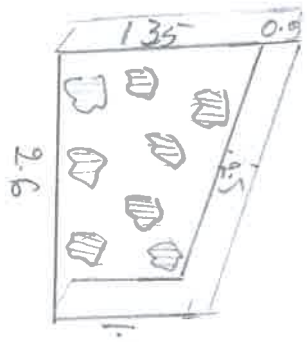
* Inidkwall = $(1.1 \times 0.7) + (0.7 \times 0.2) + (1.54) + (0.28) = 19.905 + 1.82 = 21.725 \text{ m}^2$

* Parkierung = $37.819 + 35.64 + 19.905 + 1.82 = 95.184 \text{ m}^2$

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Steel support



$$* \text{Showerwall} = (2.44 \times 1.52) + \left(\frac{1.35 + 1.1}{2} \right) \times 2.6 = \underline{\underline{6.764 \text{ m}^2}} = \underline{\underline{5.12 \text{ m}^2}}$$

$$* \text{Showerwall Step} = (0.26 \times 2.93) + (0.28 \times 2) + (0.35 \times 2.14) + (0.81 \times 3.95) = \underline{\underline{9.575 \text{ m}^2}}$$

$$* \text{Concek} = (0.5 \times 1.52) + (0.5 \times 2.6) + (2.5 \times 1) + (1.35 \times 0.9) = \underline{\underline{2.915 \text{ m}^2}}$$

$$* \text{Handuking} = (6.764 + 5.12 + 9.575) \text{ m}^2 = \underline{\underline{21.459 \text{ m}^2}}$$

TOTAL MEASUREMENT FOR HABIMANI DESIGNING COMPANY LTD on 20 September 2024

* Sand wall = $74.105 + 75.78 + 54.065 + 82.32 + 41.685 + 35.58 + 37.813 + 6.764 + 5.12 = \underline{413.238 m^2}$

* Concrete (reinforced) Mix) = $40.8 + 18.9 + 48.51 + 28.875 + 35.64 = \underline{172.725 m^2}$

* Concrete (without steel) = $22 + 52 + 61.48 + 12.472 + 57.92 + 13.905 = \underline{225.777 m^2}$

* Plastering = $139.153 + 283.317 + 144.052 + 33.605 + 65.4 + 95.187 + 21.453 = \underline{3.434 m^2}$

* Brick wall = $0.864 + 0.75 + 1.82 =$

Mahaza B4 71

$$T71 = 20 \text{ Fuso Collecting Stone} = 100 \text{ m}^3$$

$$T71 = 10 \text{ Fuso Collecting Sand} = 50 \text{ m}^3$$

$$T71 = (0,5 \times 0,4 \times 13) \times 2 = 2,6 \text{ m}^3 \text{ Excavation}$$

$$\text{Drainage Water } 4 \text{ fuso Collecting Stone} = 20 \text{ m}^3$$

$$2 \text{ fuso Collecting Sand} = 20 \text{ m}^3$$

$$(0,5 \times 23,3 \times 1) \times 2 = 23,3 \text{ m}^3 \text{ excavation}$$

Mahaza Muluhi

$$5 \text{ fuso Collecting Stone} = 25 \text{ m}^3$$

$$2 \text{ fuso Collecting Sand} = 10 \text{ m}^3$$

Garaboya B4 17

$$T = 14 \text{ Fuso Collecting Stone} = 70 \text{ m}^3$$

$$6 \text{ fuso Collecting Sand} = 30 \text{ m}^3$$

$$\text{Drainage Water } 16 \text{ fuso Collecting Stone} = 80 \text{ m}^3$$

$$8 \text{ fuso Collecting Sand} = 40 \text{ m}^3$$

$$(36,5 \times 2,5 \times 1) = 91 \text{ m}^3 \text{ excavation}$$

Karambo Banana

$$- 6 \text{ fuso Collecting Stone} = 30 \text{ m}^3$$

$$- 4 \text{ fuso Collecting Sand} = 20 \text{ m}^3$$

$$(0,5 \times 7 \times 0,6) \times 2 = 4 \text{ m}^3 \text{ excavation}$$

Halmama Designing Company