Wakiso District Countryside HOUSE :

"Wakiso-Family-House" land 20 x 20 M.

8 Person Family House in the countryside

please also see " Rent/Buy contract " for

1 Family-House by two names signature

project funding cooperation by Centenary

MGKB building contractor COMPANY :

Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60

Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00

George Botyo / Experienced Builder / 25 %om Kampala / Tel: +256 7552 365 28

Rural Development Bank Ltd / Wakiso / Ú. Volker Goebel / Dipl.-Ing., Architect / 25 %

MGKB building contractors affordable Houses

for the countryside

ARCHITECT :

Volker Goebel / Switzerland Architect, Diploma-Engineer

Gersauerstr. 85 / 6440 Brunnen

Tel: +41 41 820 06 58 Mob: +41 79 424 61 48

E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch

BA.01

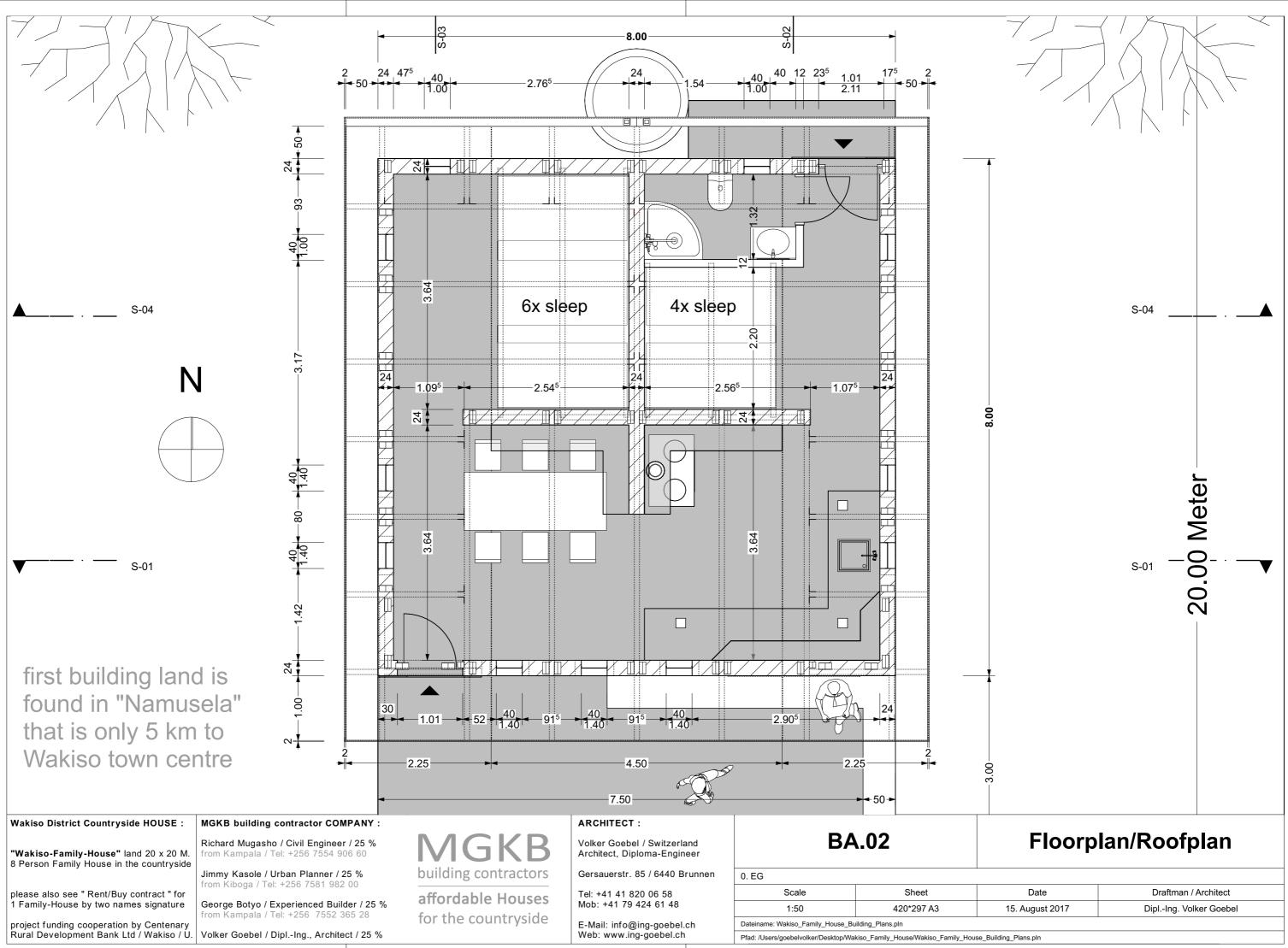
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first building land is found in Namusela that is only 5 km to Wakiso town centre

Perspective / Roof

Date 15. August 2017





"Wakiso-Family-House" land 20 x 20 M. 8 Person Family House in the countryside

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BA.03

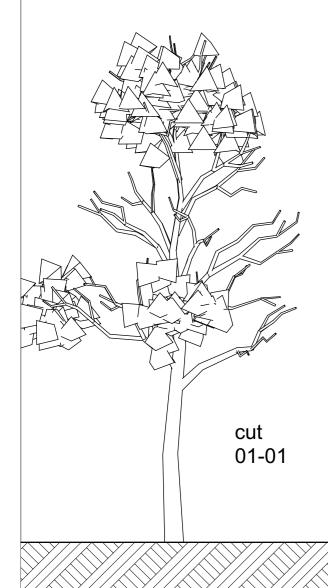
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Elevation 1

Date 15. August 2017



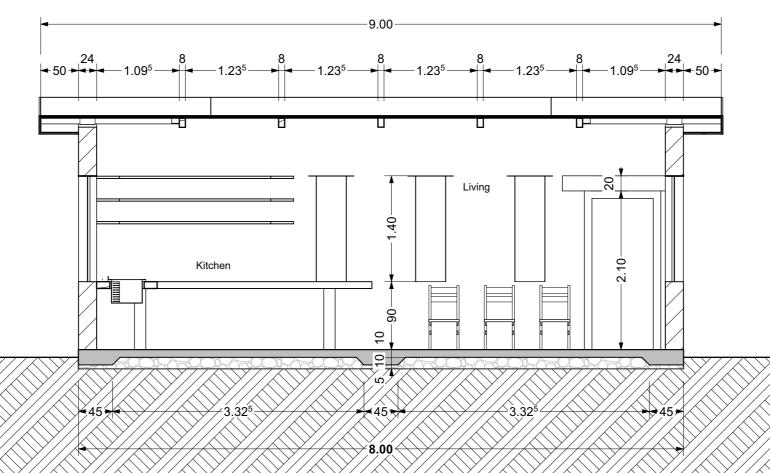
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project funding cooperation by Centenary

Rural Development Bank Ltd / Wakiso / U.

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Wakiso District Countryside HOUSE : MGKB building contractor COMPANY : Richard Mugasho / Civil Engineer / 25 % MGKB "Wakiso-Family-House" land 20 x 20 M. from Kampala / Tel: +256 7554 906 60 8 Person Family House in the countryside

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building contractors

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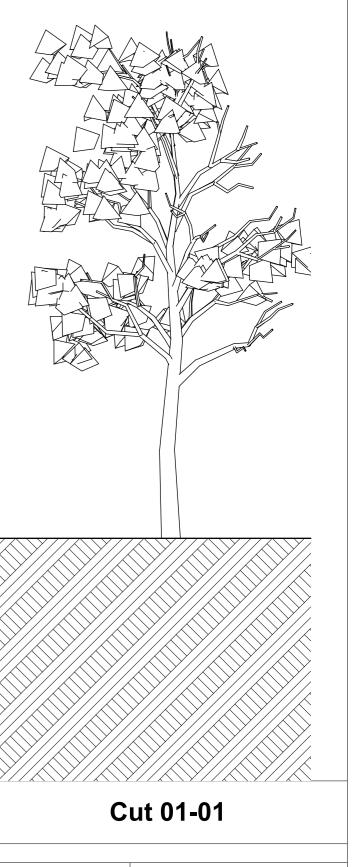
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Date
15. August 2017



8 Person Family House in the countryside

please also see " Rent/Buy contract " for

1 Family-House by two names signature

project funding cooperation by Centenary

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Rural Development Bank Ltd / Wakiso / Ú. Volker Goebel / Dipl.-Ing., Architect / 25 %

building contractors affordable Houses for the countryside

Gersauerstr. 85 / 6440 Brunnen

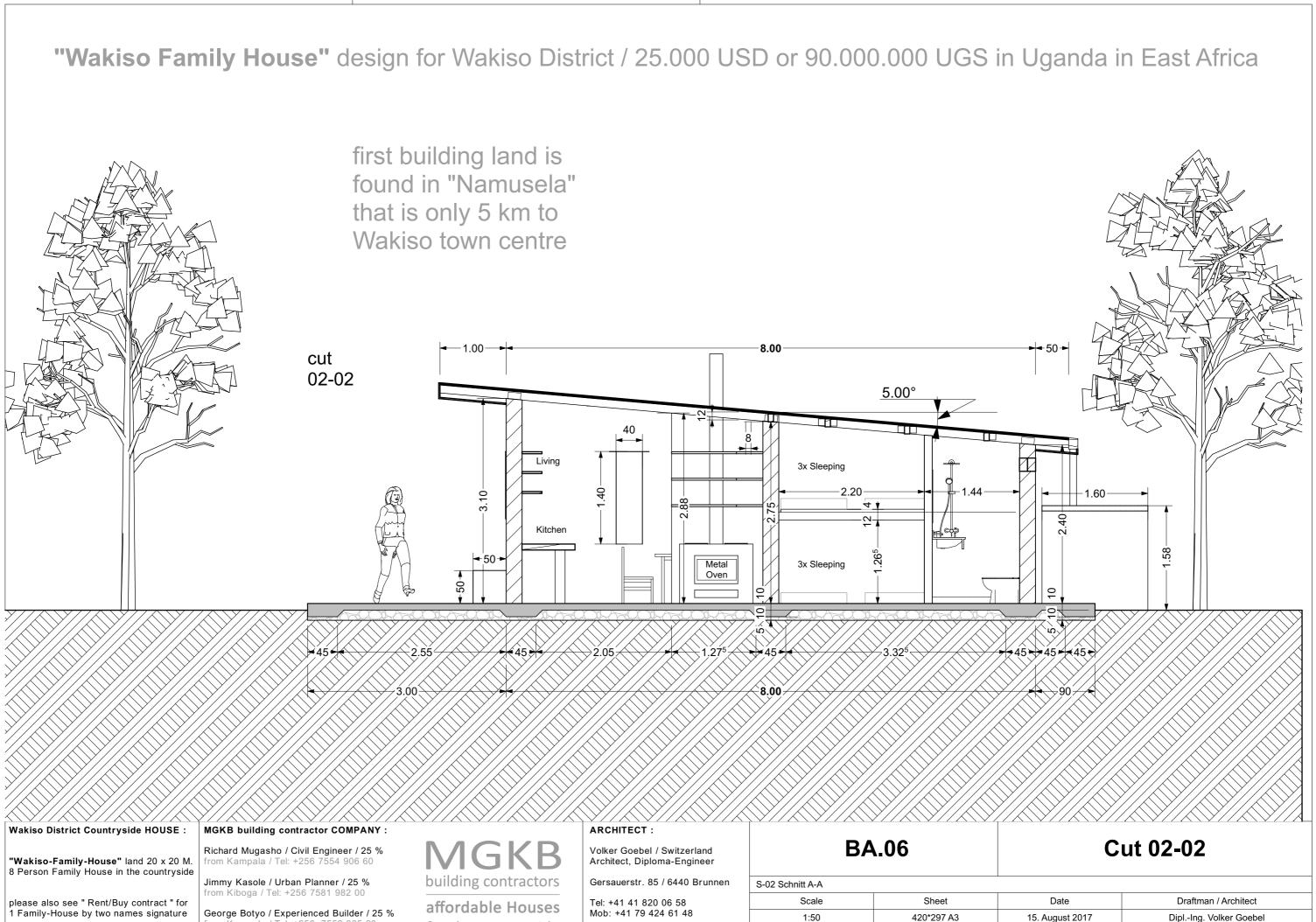
Tel: +41 41 820 06 58 Mob: +41 79 424 61 48

E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch

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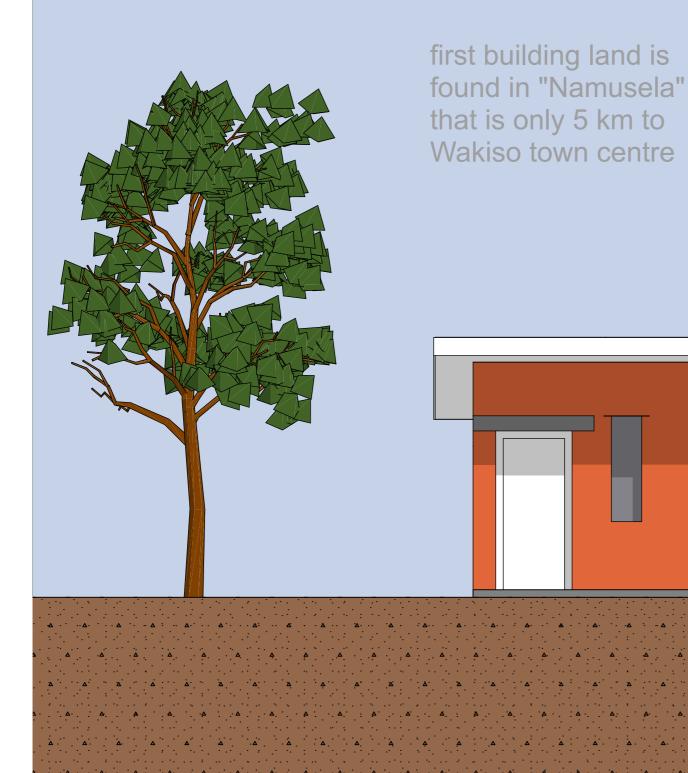
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Date 15. August 2017





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building contractors affordable Houses for the countryside

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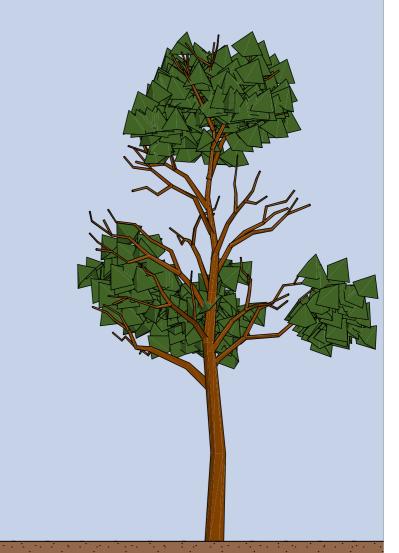
Tel: +41 41 820 06 58 Mob: +41 79 424 61 48

E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch

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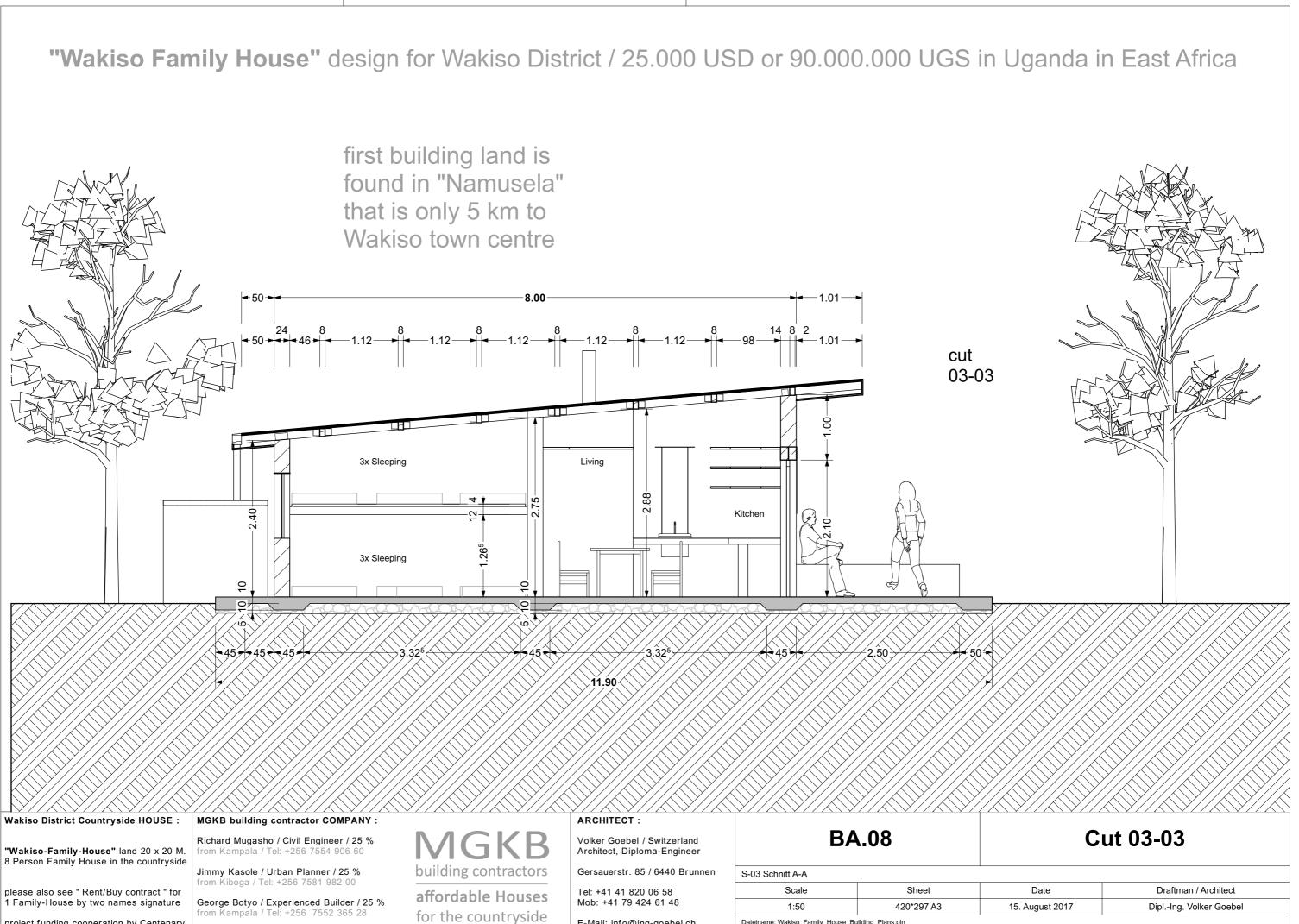
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Elevation 3

Date 15. August 2017

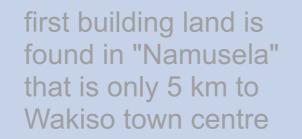


project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.

Volker Goebel / Dipl.-Ing., Architect / 25 %

E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch

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Wakiso District Countryside HOUSE :

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Rural Development Bank Ltd / Wakiso / Ú. Volker Goebel / Dipl.-Ing., Architect / 25 %



ARCHITECT :

Volker Goebel / Switzerland Architect, Diploma-Engineer Gersauerstr. 85 / 6440 Brunnen

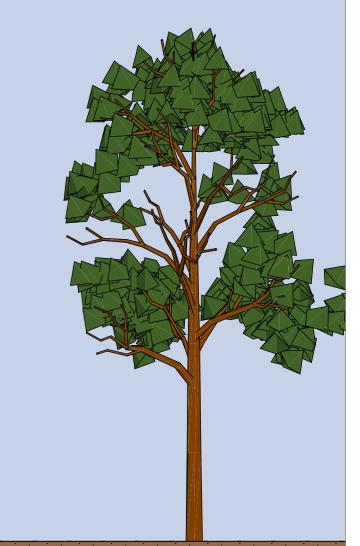
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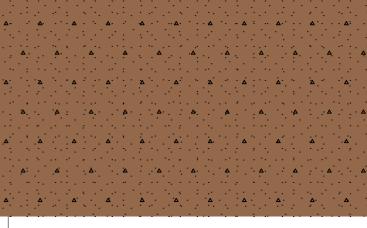
E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch

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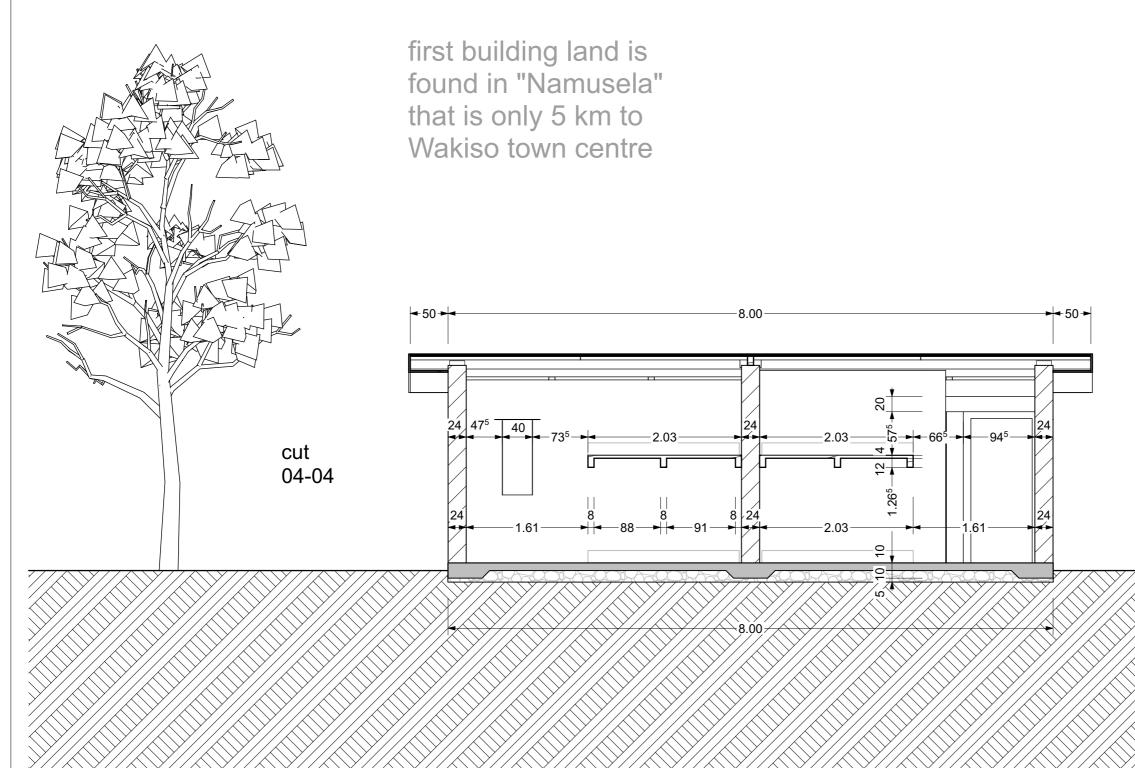
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Elevation 4

Date 15. August 2017



Wakiso District Countryside HOUSE :

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Volker Goebel / Dipl.-Ing., Architect / 25 %

MGKB building contractors

affordable Houses for the countryside

ARCHITECT :

Volker Goebel / Switzerland Architect, Diploma-Engineer

Gersauerstr. 85 / 6440 Brunnen

Tel: +41 41 820 06 58 Mob: +41 79 424 61 48

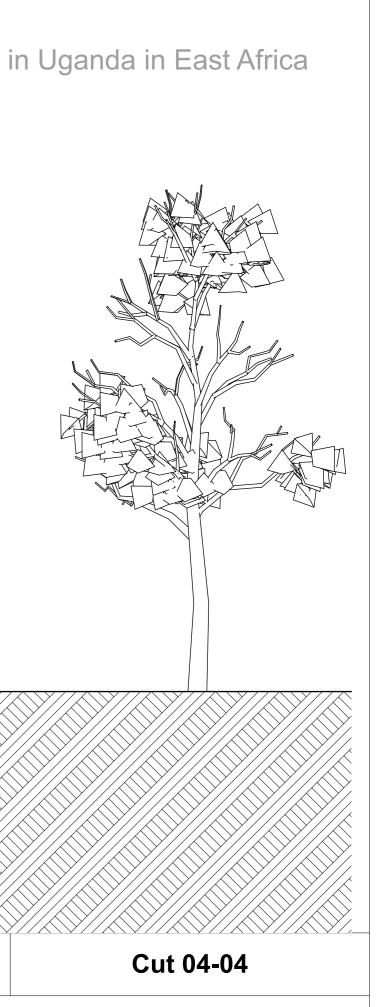
E-Mail: info@ing-goebel.ch Web: www.ing-goebel.ch

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project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U. Volker Goebel / Dip



Draftman / Architect Dipl.-Ing. Volker Goebel

Date

15. August 2017



please also see " Rent/Buy contract " for 1 Family-House by two names signature

project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / Ú. Volker Goebel / Dipl.-Ing., Architect / 25 %

Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00

George Botyo / Experienced Builder / 25 %rom Kampala / Tel: +256 7552 365 28

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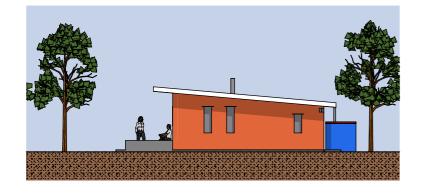
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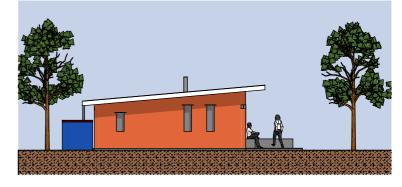
Date

15. August 2017

Description of Wakiso District Family House by the architect Volker Goebel / Dipl.-Ing. / Brunnen / Switzerland / 15. August 2017 / Version 1.0.3 It is a good house because i gives living and sleeping space for 8 children and 2 care-taker-parents = very good capacity / very effective and useful It is a good house because all the materials used are usual in Uganda : red clay stones, wood planks, sheet metal roofing and cement / concrete It is a country house that comes with 20 x 20 meter land - you can rent it or you can rent/buy it with a contract from the Centenary Dev. Bank Ltd. The roof is simple sheet metal roof under an angle of 5° - that is "much cheaper and more effective then the old but complex V-style saddle roof". The wooden roof boxing on the outside makes it look much thicker then it is. Its "shows" a very solid appearance. The roof is very easy to repair. The roof can be covered with local kikau leaves to give it a "traditional look" and that the rain can't play its music so loud on the sheet metal roof. The rainwater gutters on the back collect 100 % of the rain water from the roof into a round tank - the big tank supplies water to the bathroom WC Real solid doors and windows with perforated sheet metal blendings secure the house owners things and give the house owners a certain security The high vertical window openings let air in constantly, they secure a certain privacy but the children can look out well and can even see the sky ... The brick walls from clay stones are so solid, that it is possible to put up a 2nd floor on top and access it by separate stairs (build inside or outside) The sheet metal oven in the kitchen will improve local health situation very much. No more open fires and fumes. There is a fumes ventilation pipe. The house contains a bath with a toilet, a shower and a sink for washing hands, face and hair - waste water and fresh water connection from site This is the best and the cheapest Family House we can offer to the people in Wakiso District - it is the efficiency that counts - not the high roof ... Best regards from Richard Mugasho, Volker Goebel, Jimmy Kasole, George Botyo - MGKB building company - Civil engineers, architects, builders







Wakiso District Countryside HOUSE :

"Wakiso-Family-House" land 20 x 20 M. 8 Person Family House in the countryside

please also see " Rent/Buy contract " for

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Rural Development Bank Ltd / Wakiso / Ú.

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MGKB building contractor COMPANY :

George Botyo / Experienced Builder / 25 %

om Kampala / Tel: +256 7552 365 28

Volker Goebel / Dipl.-Ing., Architect / 25 %

MGKB building contractors affordable Houses for the countryside

ARCHITECT :

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Gersauerstr. 85 / 6440 Brunnen

Tel: +41 41 820 06 58 Mob: +41 79 424 61 48

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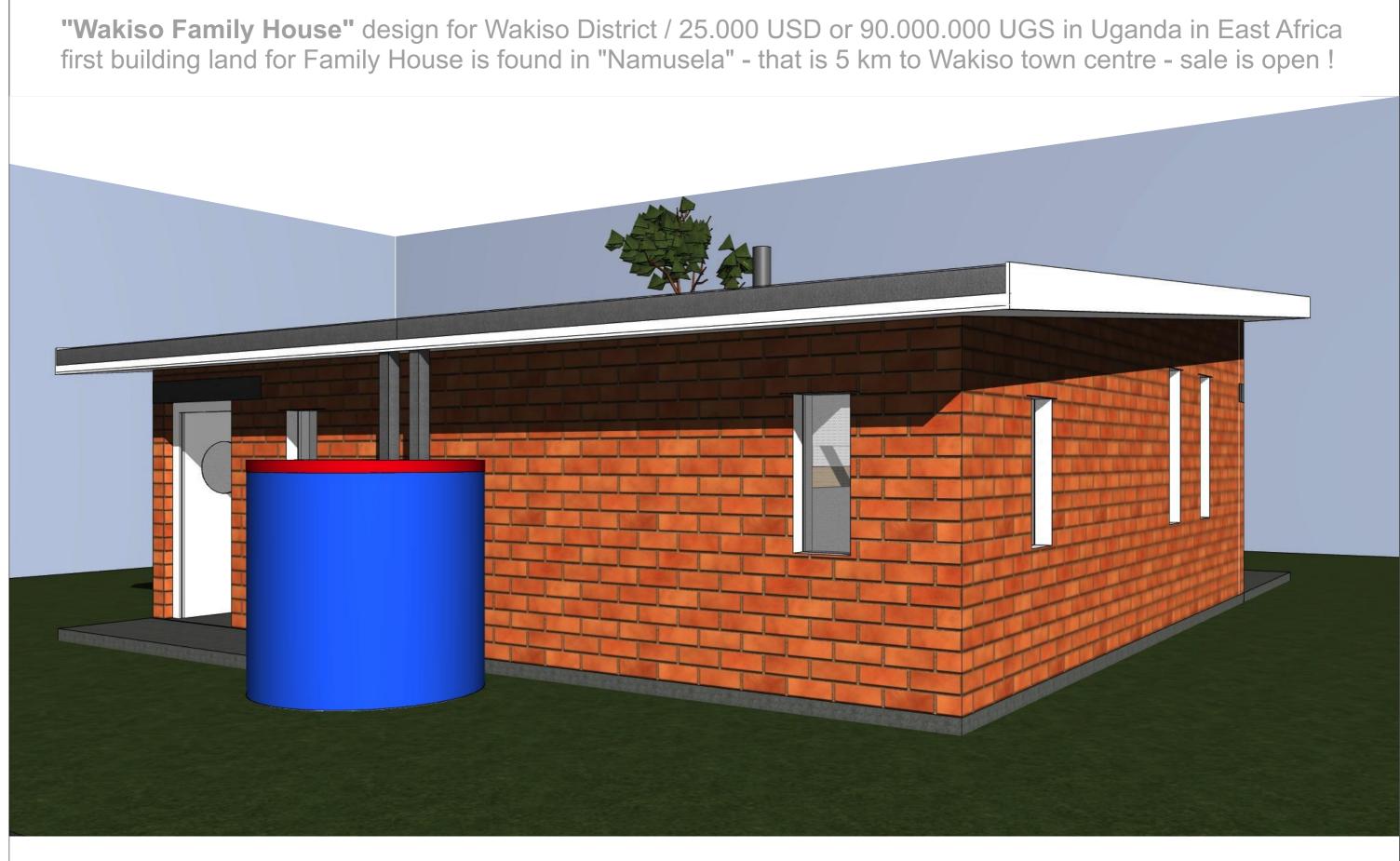
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Description Family House

Date 15. August 2017 Draftman / Architect Dipl.-Ing. Volker Goebel

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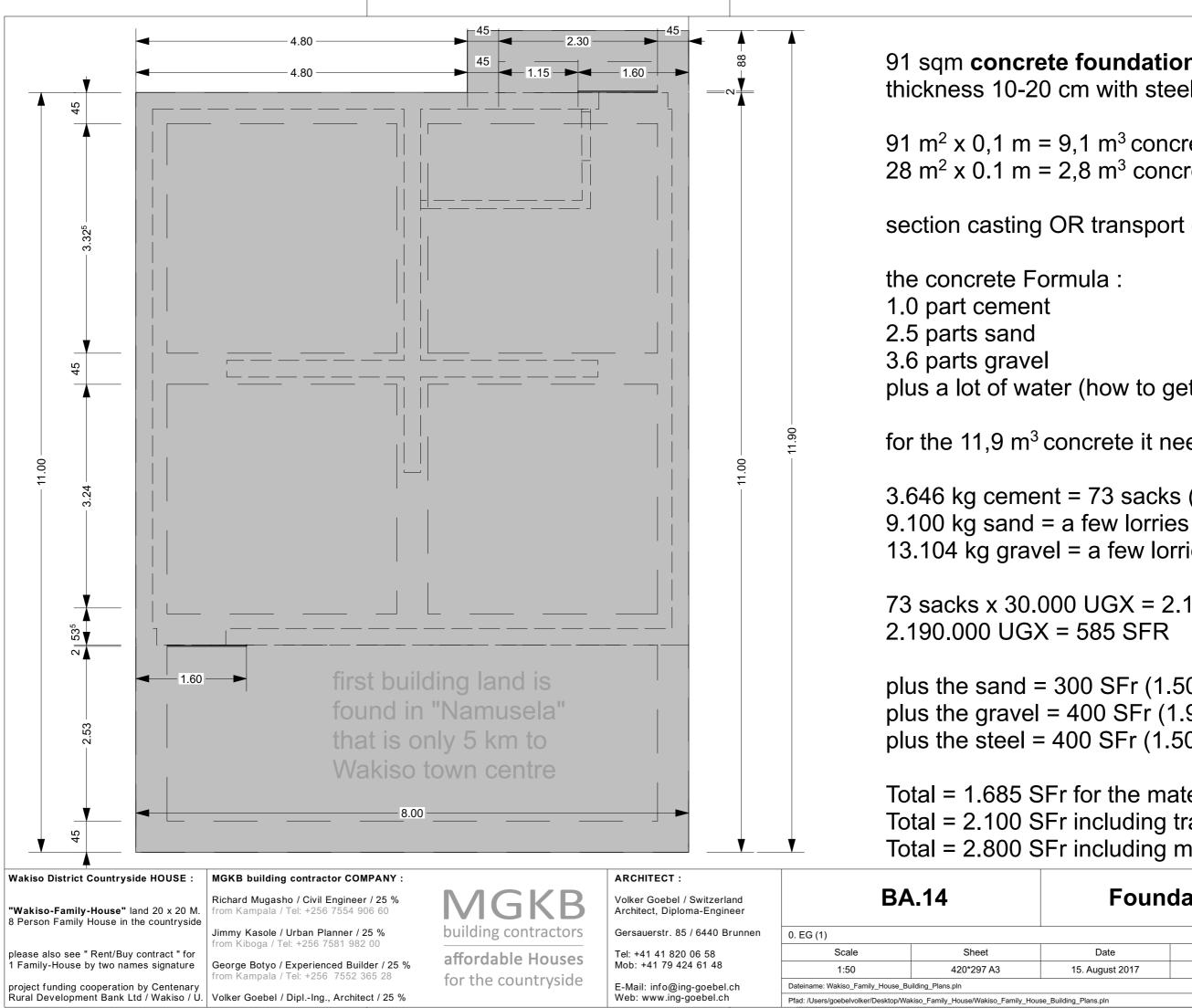
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Backside Perspective

Date 15. August 2017



91 sqm concrete foundation plate thickness 10-20 cm with steel mats inside

91 m² x 0,1 m = 9,1 m³ concrete needed $28 \text{ m}^2 \text{ x} 0.1 \text{ m} = 2,8 \text{ m}^3 \text{ concrete needed}$

section casting OR transport concrete Wakiso

plus a lot of water (how to get it there)

for the 11,9 m³ concrete it needs :

3.646 kg cement = 73 sacks (50 kg)13.104 kg gravel = a few lorries

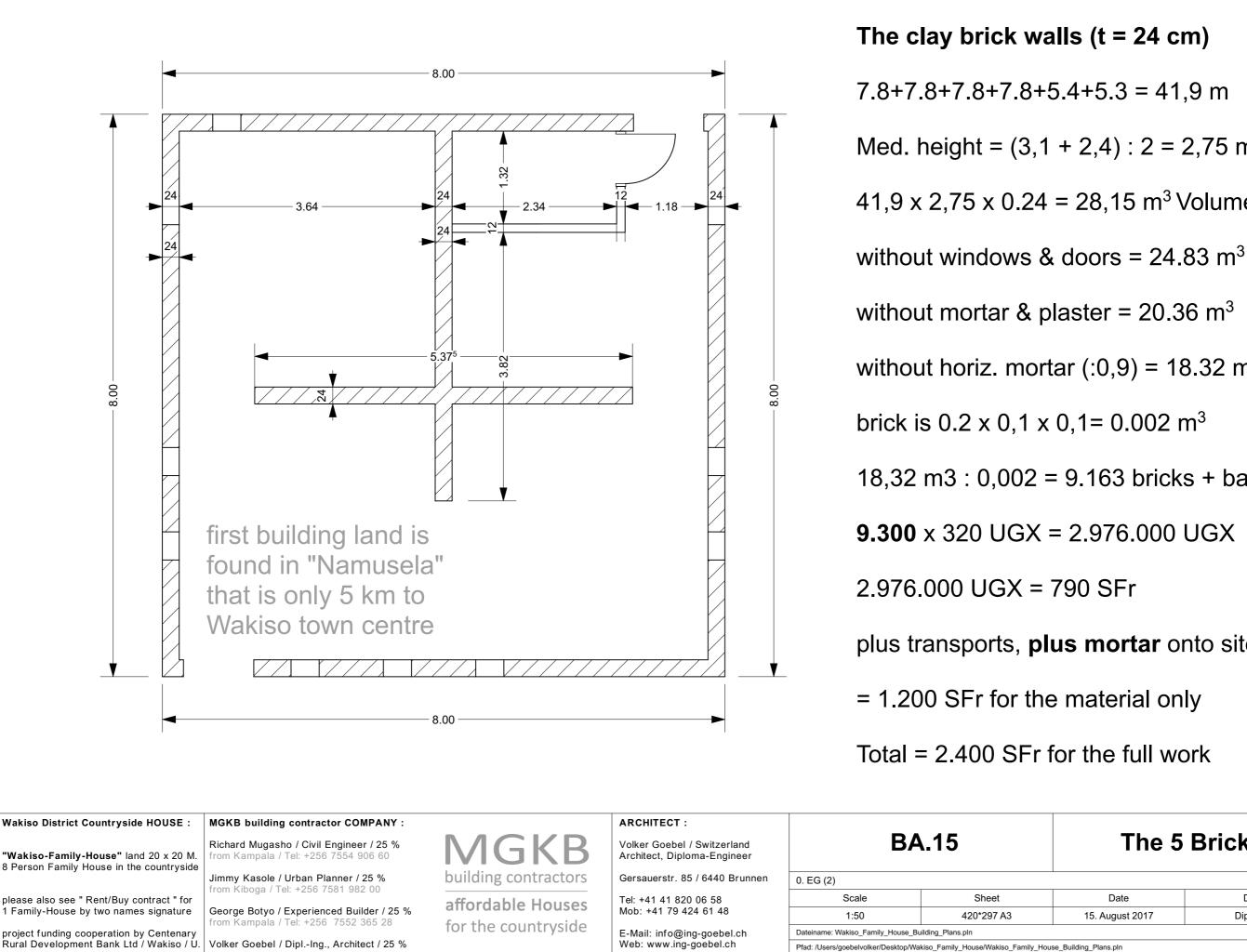
73 sacks x 30.000 UGX = 2.190.000 UGX

plus the sand = 300 SFr (1.500.000 UGX)plus the gravel = 400 SFr (1.900.000 UGX)plus the steel = 400 SFr (1.500.000 UGX)

Total = 1.685 SFr for the materials Total = 2.100 SFr including transports Total = 2.800 SFr including man work

Foundation Plate

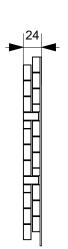
Date 15. August 2017

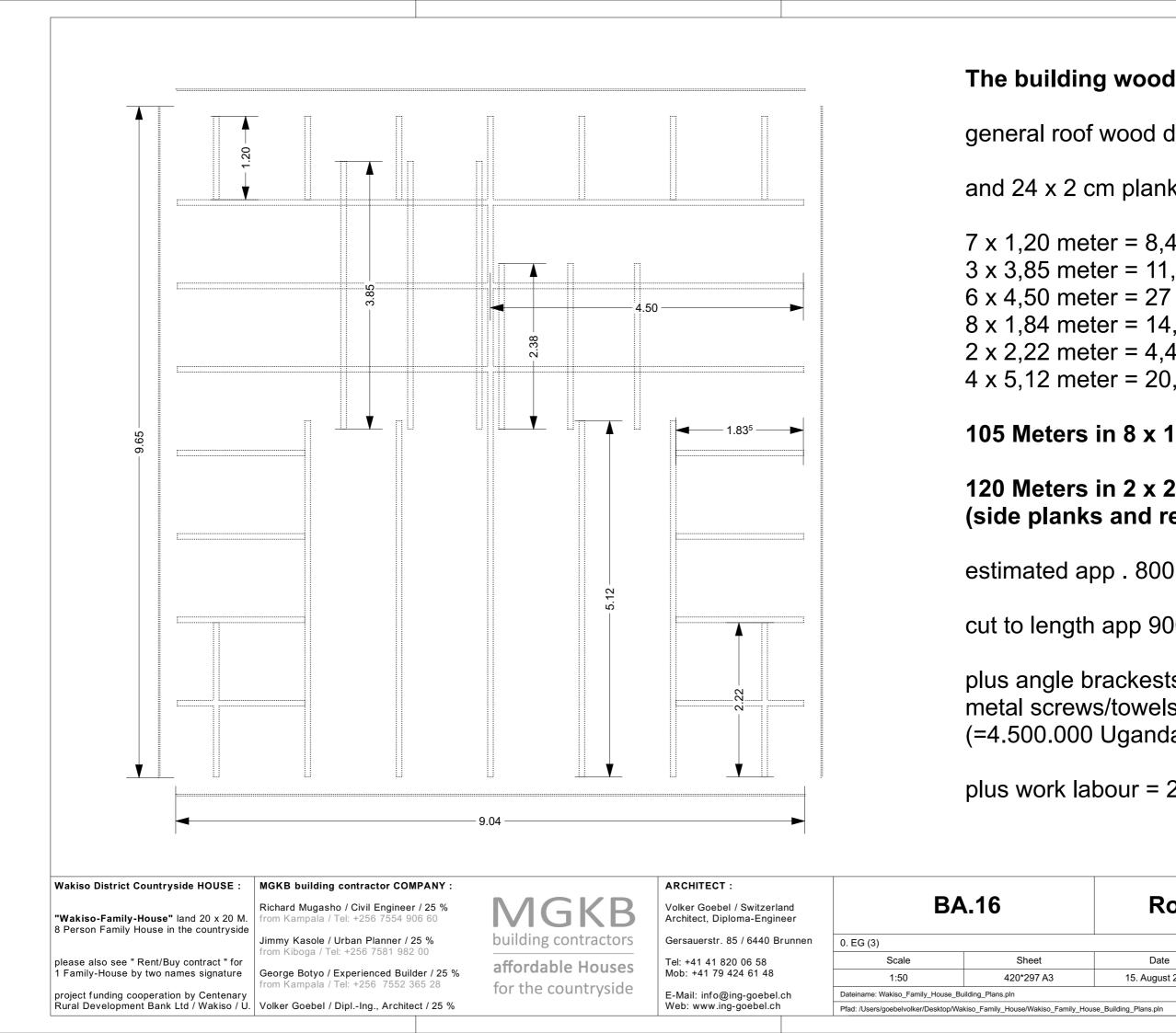


- Med. height = (3,1 + 2,4) : 2 = 2,75 m
- 41,9 x 2,75 x 0.24 = 28,15 m³ Volume
- without horiz. mortar (:0,9) = 18.32 m3
- 18,32 m3 : 0,002 = 9.163 bricks + bath
- plus transports, plus mortar onto site

The 5 Brick Walls

Date 15. August 2017





general roof wood dimension 8 x 12 cm

and 24 x 2 cm planks for the sides ...

```
7 x 1,20 meter = 8,4 Meter = 10 m.
3 x 3,85 meter = 11,5 Meter = 14 m.
6 x 4,50 meter = 27 Meter = 32 m.
8 x 1,84 meter = 14,7 Meter = 18 m.
2 x 2,22 meter = 4,44 Meter = 6 m.
4 x 5,12 meter = 20,5 Meter = 25 m.
```

105 Meters in 8 x 12 cm Wood

120 Meters in 2 x 24 cm Wood (side planks and rest of box)

estimated app . 800 SFr.

cut to length app 900 SFr.

```
plus angle brackests (2 types)
metal screws/towels = 1.200 SFr.
(=4.500.000 Uganda Shillings)
```

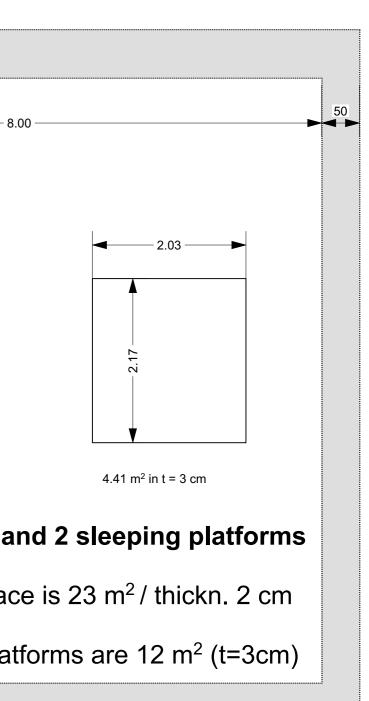
plus work labour = 2.000 SFr.

Roof building wood

Date 15. August 2017

Sheet metal roof (t = 0.75mm)	
the roof surface is 85,5 m ²	
seen from above (5° roof)	
it needs a drilling machine and special screws to fix it to the wooden structure	3.58
all sheets are overlapping	
we also use transparent PVC light-roof-sheets (t= 1,4 mm) for table and kitchen area	7.27 m ² Wooden under-roof a wood under-roof surface 2 wooden sleeping pla
4 .50 5 4 .50 5 5 5 5 5 5 5 5 5 5	2.25 22.76 m ² in t = 2 cm
100 m ² = 1.466 SFr = 5.500.000 UGX including : transport to the remote site fixing material and the craftmenswork	35 m ² = 557 SFr including : transp fixing material an

Wakiso District Countryside HOUSE :	MGKB building contractor COMPANY :		ARCHITECT :		
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	Jimmy Kasole / Urban Planner / 25 %	building contractors	Gersauerstr. 85 / 6440 Brunnen		
please also see " Rent/Buy contract " for	from Kiboga / Tel: +256 7581 982 00	affordable Houses	Tel: +41 41 820 06 58	Scale	Sheet
1 Family-House by two names signature	George Botyo / Experienced Builder / 25 %		Mob: +41 79 424 61 48	1:50	420*297 A3
roject funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U. from Kampala / Tel: +256 7552 365 28 Volker Goebel / DiplIng., Architect / 25 %	for the countryside E-Mail: info@ing-goebel.ch	Dateiname: Wakiso_Family_House_Building_Plans.pln			
	Volker Goebel / DiplIng., Architect / 25 %		Web: www.ing-goebel.ch	Pfad: /Users/goebelvolker/Desktop/Wakiso Family House/Wakiso Family House/	

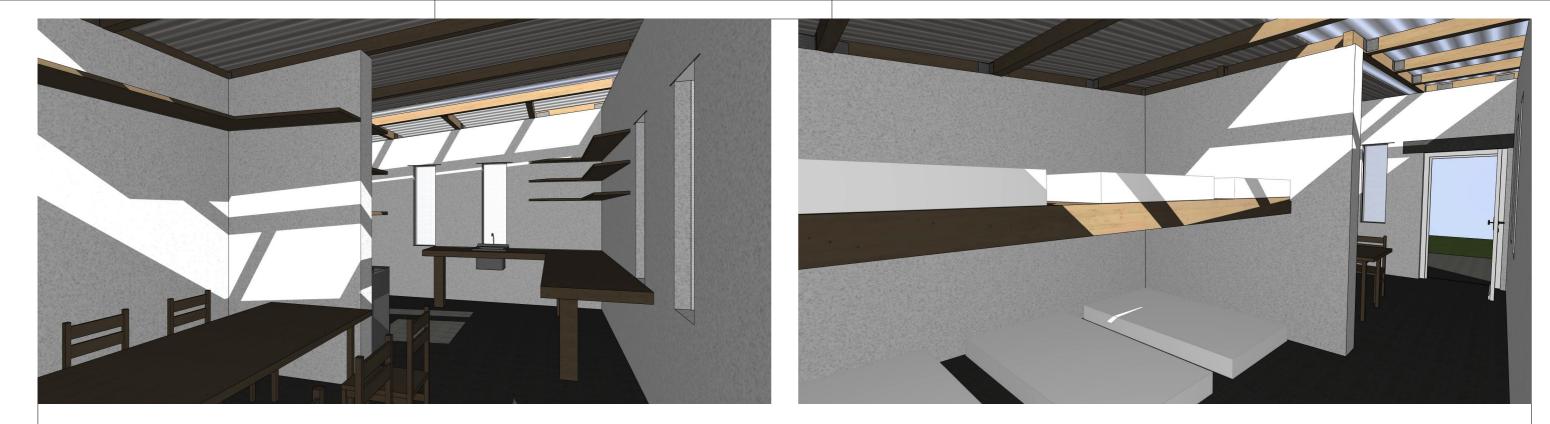


$35 \text{ m}^2 = 557 \text{ SFr} = 2.100.000 \text{ UGX}$ including : transport to the remote site fixing material and the craftmenswork

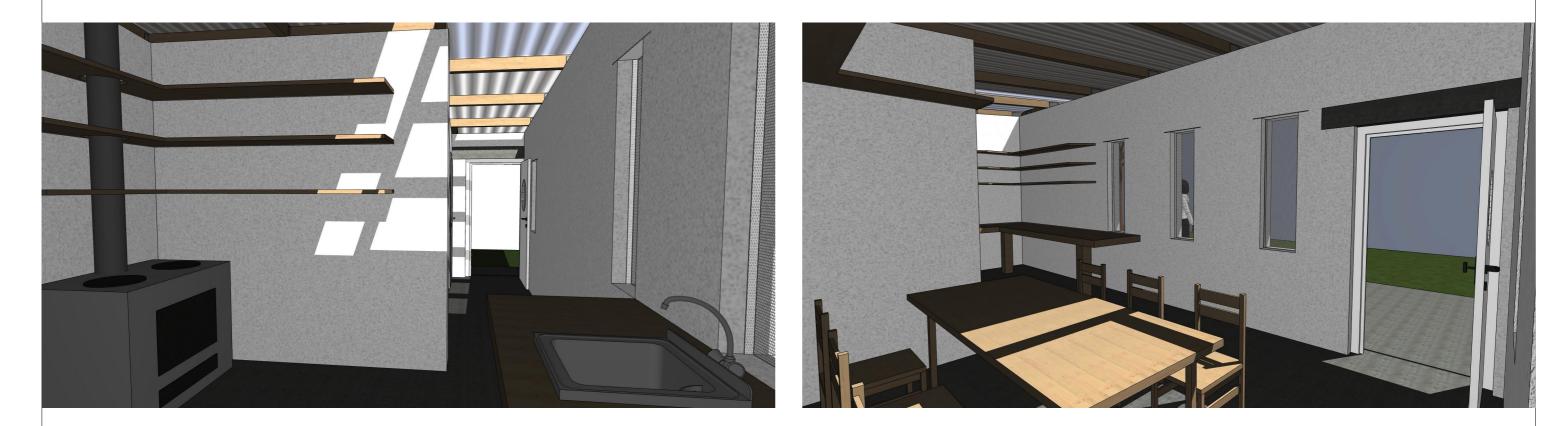
Sheet Roof Material

Date 15. August 2017 Draftman / Architect Dipl.-Ing. Volker Goebel

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first building land for Family House is found in "Namusela" that is only 5 km to Wakiso town centre - sales start



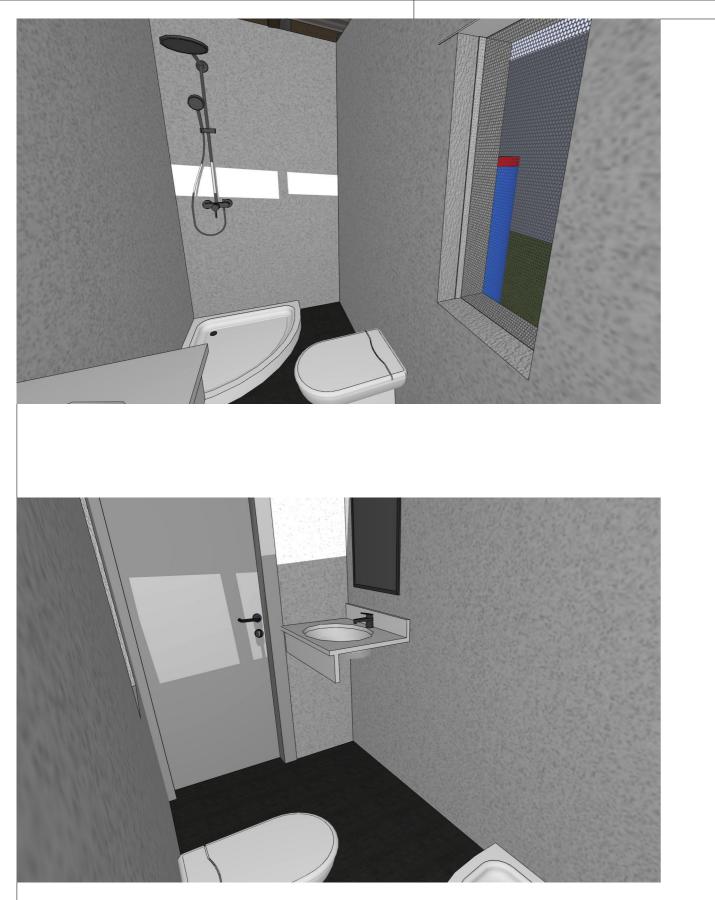
Wakiso District Countryside HOUSE :	MGKB building contractor COMPANY :		ARCHITECT :		
"Wakiso-Family-House" land 20 x 20 M. 1 8 Person Family House in the countryside	Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60	MGKB	Volker Goebel / Switzerland Architect, Diploma-Engineer	BA.18	
	Jimmy Kasole / Urban Planner / 25 %	building contractors	Gersauerstr. 85 / 6440 Brunnen	5, 6, 7, 8 Kamera	
please also see " Rent/Buy contract " for	from Kiboga / Tel: +256 7581 982 00	affordable Houses	Tel: +41 41 820 06 58	Scale	Sheet
1 Family-House by two names signature	George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Mob: +41 79 424 61 48	1:3.85	420*297 A3
project funding cooperation by Centenary	1011 Kaliipala / Tel. +230 / 332 303 20	for the countryside	E-Mail: info@ing-goebel.ch	Dateiname: Wakiso_Family_House_Building_Plans.pln	
Rural Development Bank Ltd / Wakiso / U.	Volker Goebel / DiplIng., Architect / 25 %		Web: www.ing-goebel.ch	Pfad: /Users/goebelvolker/Desktop/Wakiso_Family_House/Wakiso_Family_Hou	

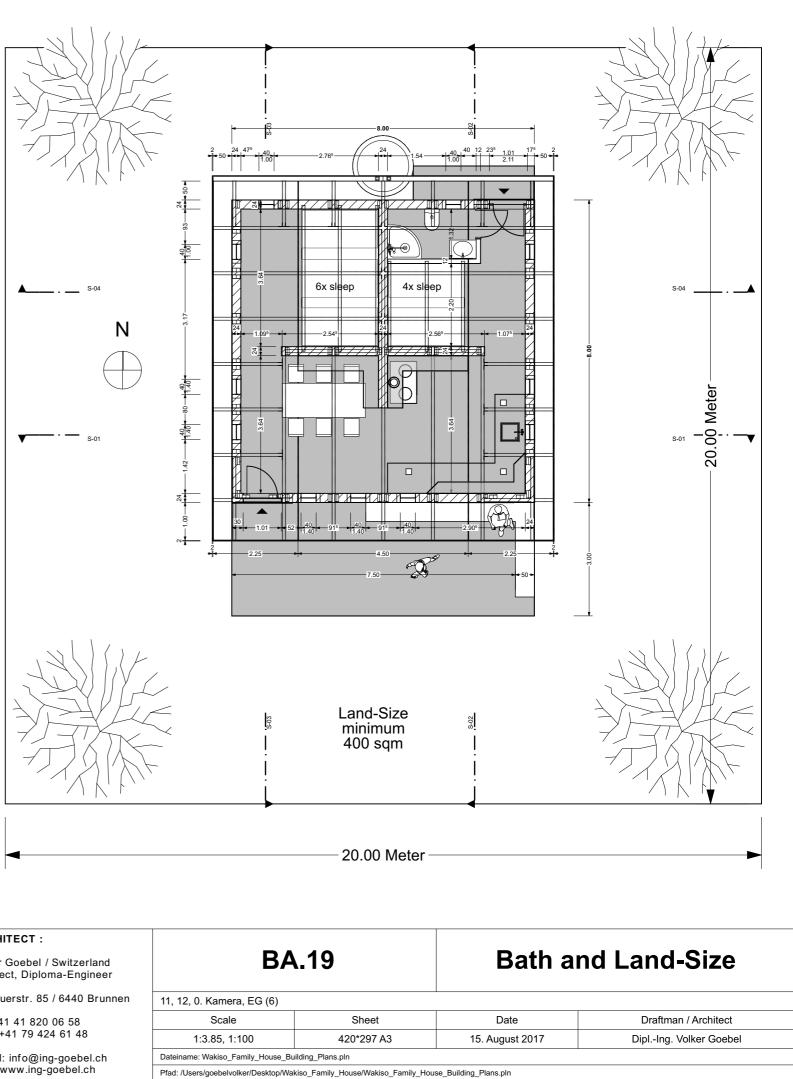
Eating and Kitchen

Date 15. August 2017

Draftman / Architect Dipl.-Ing. Volker Goebel

ouse_Building_Plans.pln





Wakiso District Countryside HOUSE :	MGKB building contractor COMPANY :		ARCHITECT :		
	Richard Mugasho / Civil Engineer / 25 % from Kampala / Tel: +256 7554 906 60	MGKB	Volker Goebel / Switzerland Architect, Diploma-Engineer	BA.19	
	Jimmy Kasole / Urban Planner / 25 % from Kiboga / Tel: +256 7581 982 00	building contractors	Gersauerstr. 85 / 6440 Brunnen	11, 12, 0. Kamera, EG (6)	
please also see " Rent/Buy contract " for		affordable Houses	Tel: +41 41 820 06 58	Scale	Sheet
1 Family-House by two names signature	George Botyo / Experienced Builder / 25 % from Kampala / Tel: +256 7552 365 28		Mob: +41 79 424 61 48	1:3.85, 1:100	420*297 A3
project funding cooperation by Centenary Rural Development Bank Ltd / Wakiso / U.	11011 Kaliipala / Tel. +250 / 552 305 20	for the countryside	E-Mail: info@ing-goebel.ch	Dateiname: Wakiso_Family_House_Building_Plans.pln	
	Volker Goebel / DiplIng., Architect / 25 %		Web: www.ing-goebel.ch Pfad: /Users/goebelvolker/Desktop/Wakiso_Family_Hous		kiso_Family_House/Wakiso_Family_