Kenya, Dadaab Camps for 250'000 Refugees from Somalia

ETHIOPIA
SOMALI
REPUBLIC
LOWER

Kenya - Dadaab

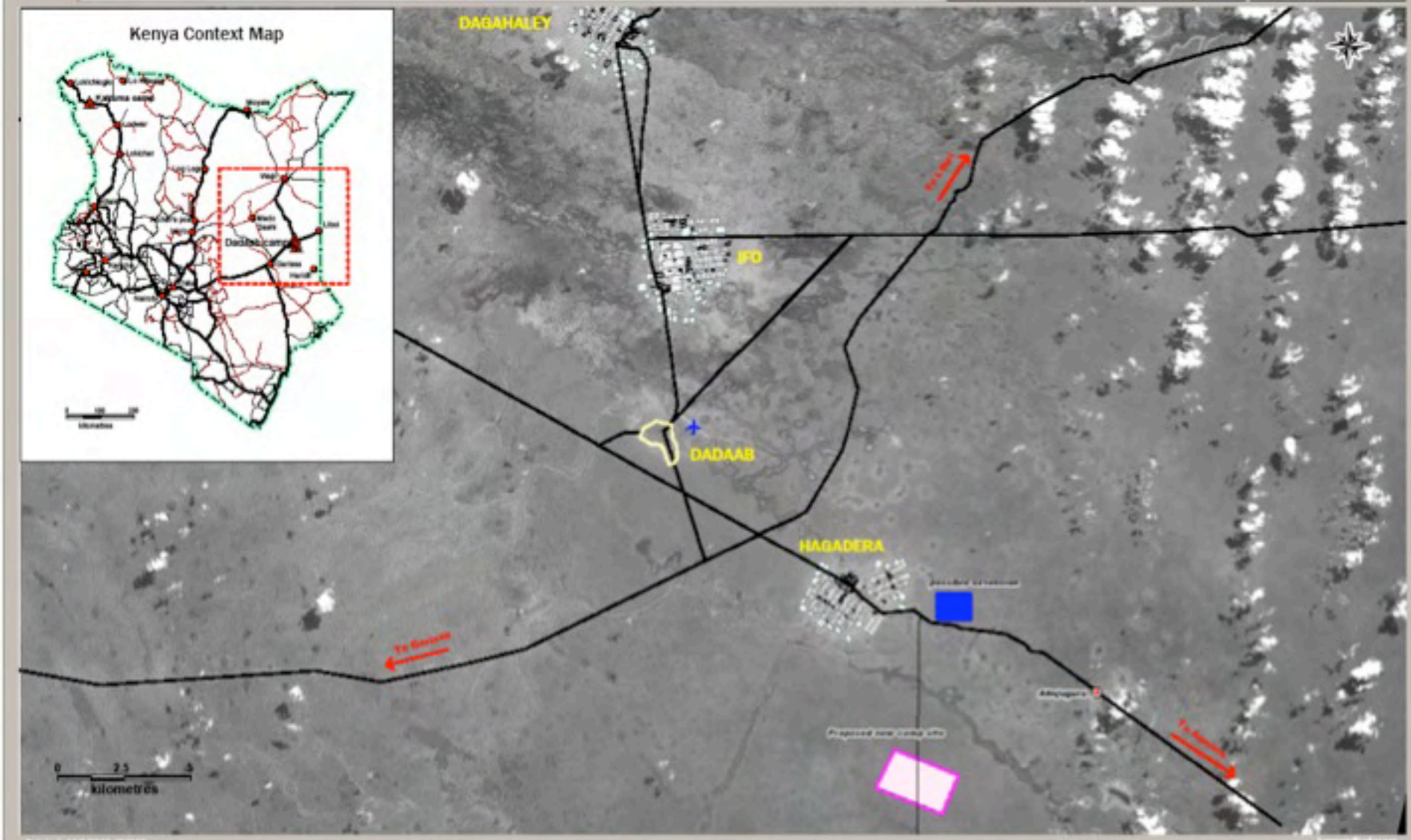
Location of proposed new camp site, Jaranjira

As of September 2008

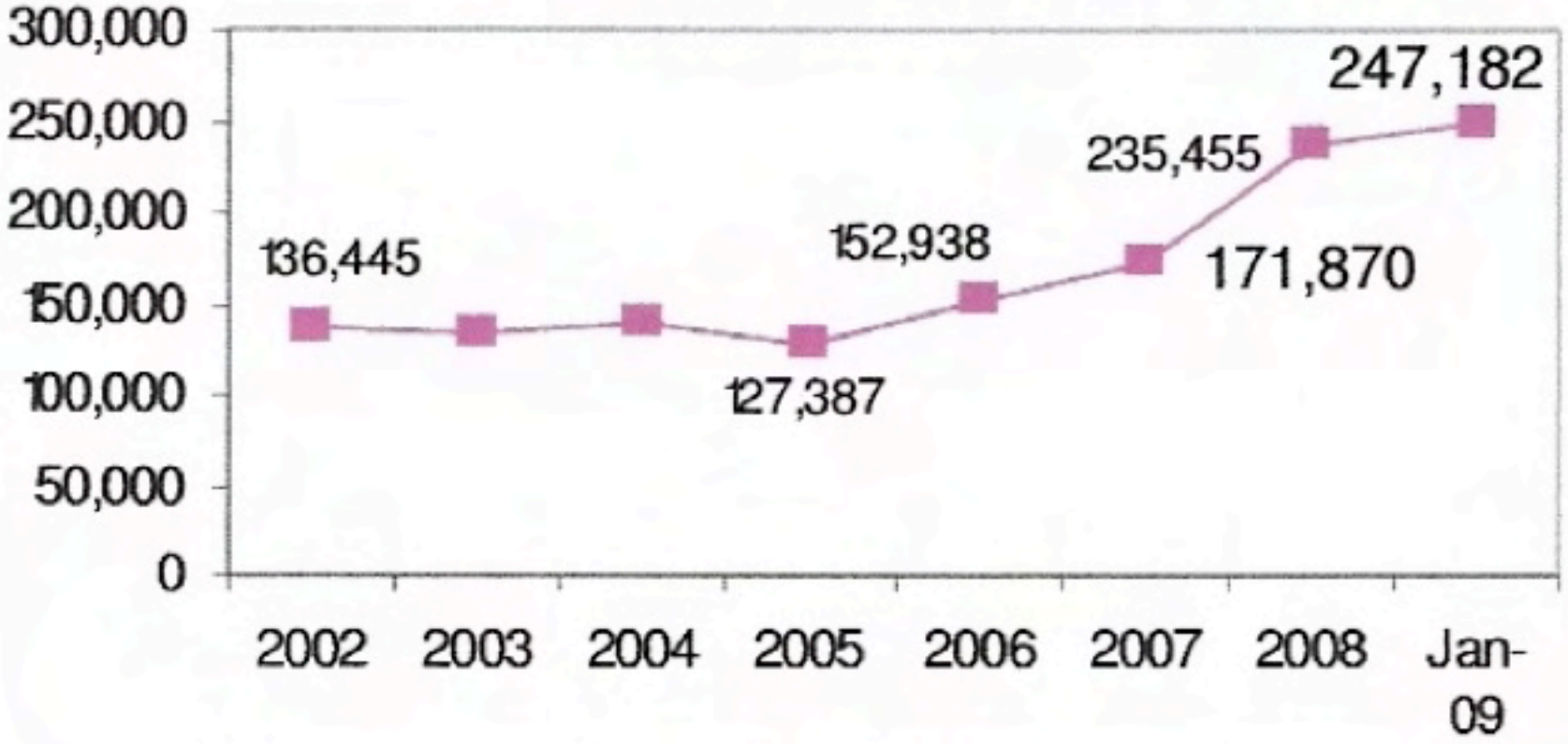
RSAL
Regional Spatial Analysis Lab
Nairobi, Kenya

LEGEND
- Town of interest
- Proposed site
- Proposed extension area
- Camp block
- Facility
- Greenbelt
- Main road

Kenya Context Map



Dadaab Population Trends (2002 - 2008)



Population was increasing 2008 more than 40 %
with less staff members
and the same budget (budget on emergency level since 17 years)

- Dadaab is located in in the North-Eastern Province, some 500 km from Nairobi and 80 km from Somali border.
- There are 3 refugee camps in Dadaab: Ifo 85'000 refugees, Hagadera 90'000 refugees and Dagahaley 75'000 refugees
- All three camps cover a total area of 50 square kilometers and are within an 18-kilometer radius of Dadaab Town.
- The region surrounding Dadaab consists of semi-arid dessert, sparse vegetation and no surface water.
- Before the establishment of the camps in 1991 the area was used exclusively as rangeland by nomadic livestock owners.

UNHCR Partners:

CARE Kenya

- Food / Nonfood Items distribution
- Water and Sanitation
- Education and community services

GTZ / IRC

- Health: Medical care and medical referrals
- Firewood distribution
- Environmental Management

NRC (Norwegian Refugee Council)

- Infrastructure construction incl. latrines and schools
- Youth Centers

NCCK (National Council of Churches of Kenya)

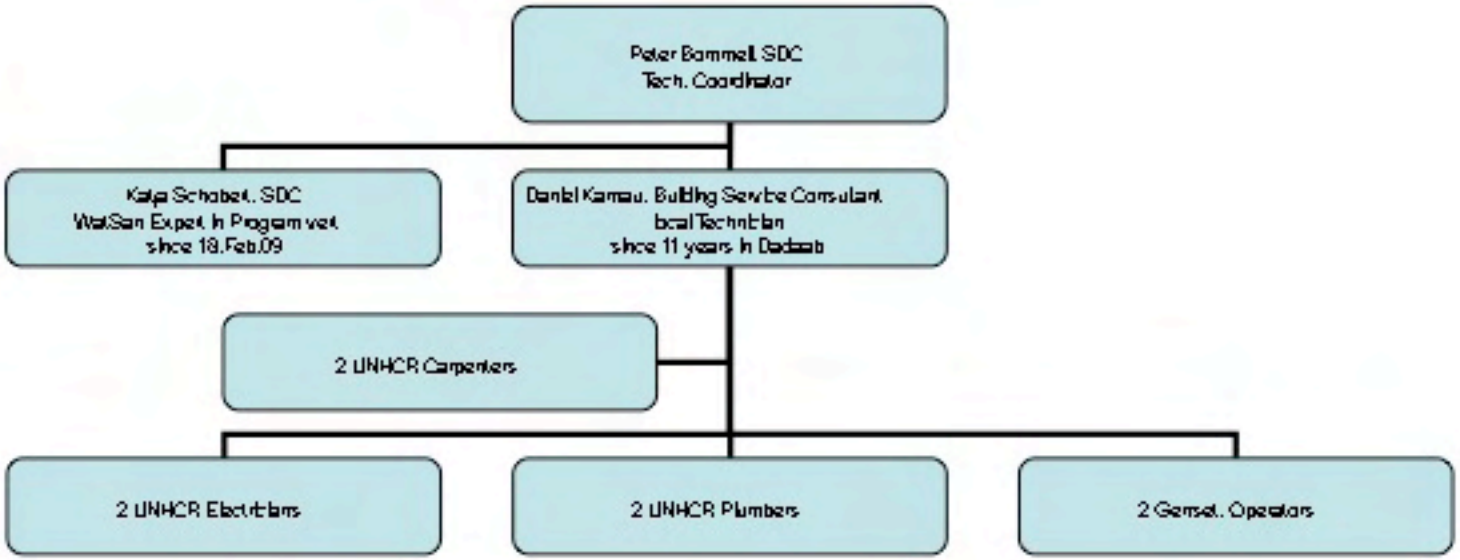
- HIV / AIDS
- Peace Education

LWF (Lutheran World Federation)

- Camp Management: Reception and Transit Centers Management
- Site Planning and Facilitations of Refugees Self Management Initiatives

+ HANDICAP INTERNATIONAL and SAVE CHILDREN UK

Technical Unit UNHCR



- My TOR as seconded Tech. Coordinator to UNHCR :

- Water supply
- Sanitation
- Construction of new buildings
- Shelter
- New Road Construction / Rehabilitation
- Maintenance of existing buildings
- Waste management
- Site Planning
- Skill training local Staff

UNHCR
The UN Refugee Agency

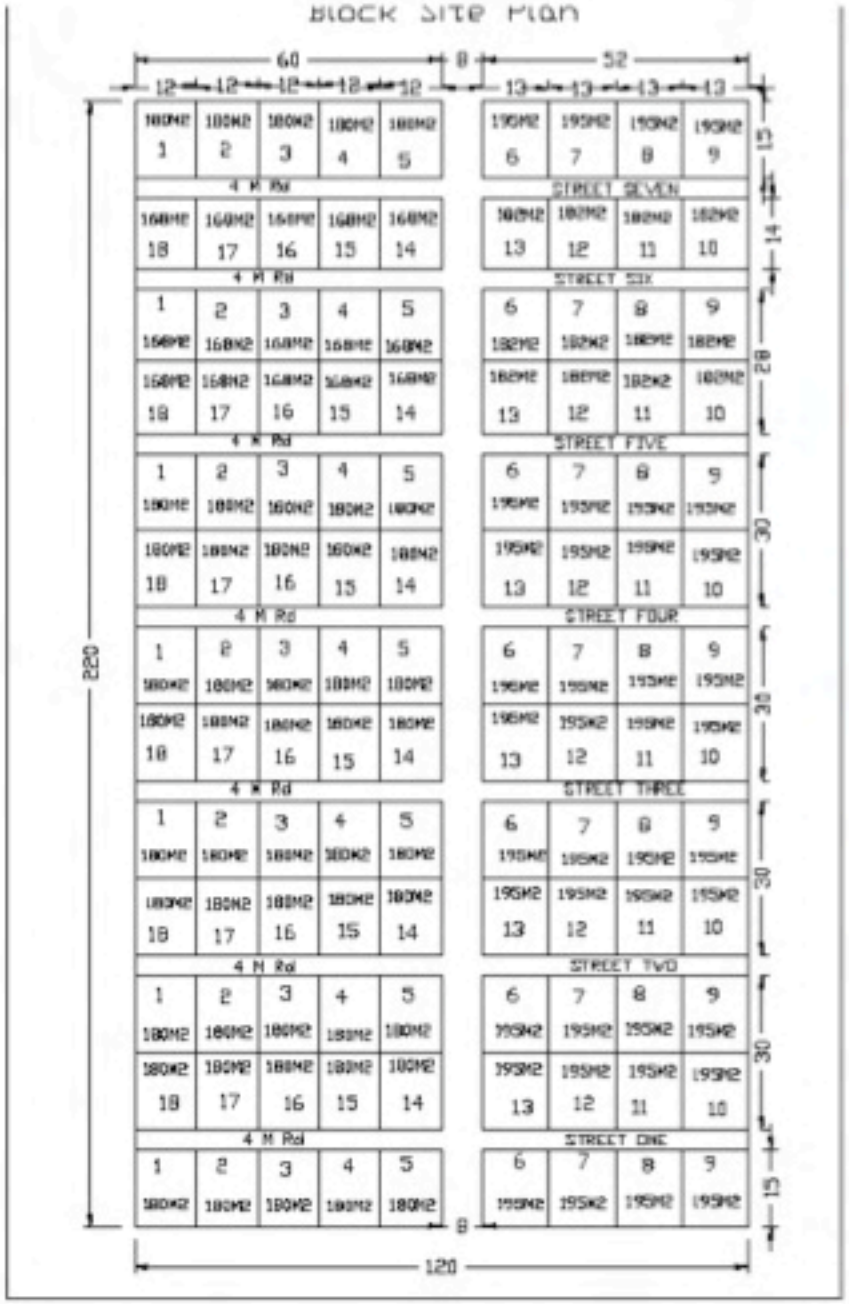
Hagadera Refugee Camp Overview

As of January 2007

RSAL
Regional Spatial Analysis Lab
Nairobi, Kenya

The boundaries and names shown and the designations used on this map do not imply official endorsement or acceptance by the United Nations.

Sources: UNHCR, RSL



Shelter

1 Block has 117 Plots,
1 Plot for each family
Average of family members = 5
= 600 persons are living in 1 block

since 2008 Durable Shelter solutions:
Refugees have to produce Mud bricks their self

Permanent Shelter with Mudbricks

UNHCR provide the Roof Construction and 1 door

WATER SUPPLY

- **21 boreholes existing**
- **16 boreholes in the camps**
- **5 boreholes for the host communities**
- **150m deep**
- **18 pumping hours average / day**
- **5 Million liters / day**
- **livestock / plantation use a lot of this drinking water during the dry season**

Water Production in Dadaab Camps in Jan. 2009

IFO Camp				Population 26.01.09 = 83'245	
Running Borholes	Average production m3 / h	Average running hours	Production m3 / day	Pumped Quantity at borehole Liter/ person/day	Estimated Quantity distributed at tab stands Liter/person/day **
6	19,06	15,46	1'686	20,25	16,20

** The pumped quantity at boreholes has to be reduced by 20% for leackages, livestock, nurseries, markets etc.

DAGAHALEY Camp				Population 26.01.09 = 69'633	
Running Borholes	Average production m3 / h	Average running hours	Production m3 / day	Pumped Quantity at borehole Liter/ person/day	Estimated Quantity distributed at tab stands Liter/person/day **
5	16,40	16,20	1'281	18,40	14,72

HAGADERA Camp				Population 26.01.09 = 91'347	
Running Borholes	Average production m3 / h	Average running hours	Production m3 / day	Pumped Quantity at borehole Liter/ person/day	Estimated Quantity distributed at tab stands Liter/person/day **
5	19,58	17,00	1'676	18,34	14,67

Minimum Quantity in Emergency Situation should be 15.0 Liter/person/day

with 3 additional boreholes fundet by 500'000 Swiss Franks of the remaining Africa Budget 2008 help to have 3 additional Litres / Person / Day in each camp

Water tanks:
75'000 to 100'00 litres

Dagahaley Refugee Camp
Water Supply Network - as of December 2007
LEGEND

TEST OF WATER QUALITY IN COLLABORATION WITH CARE

SANITATION / LATRINES

Situation in August 2008:

- **29'000 family latrines are missing in the camps**
- **679 School latrines (UN Standard 1 latrine 30 girls / 50 boys) missed**
- **24 double and 5 single half permanent latrines missing in the hospitals**

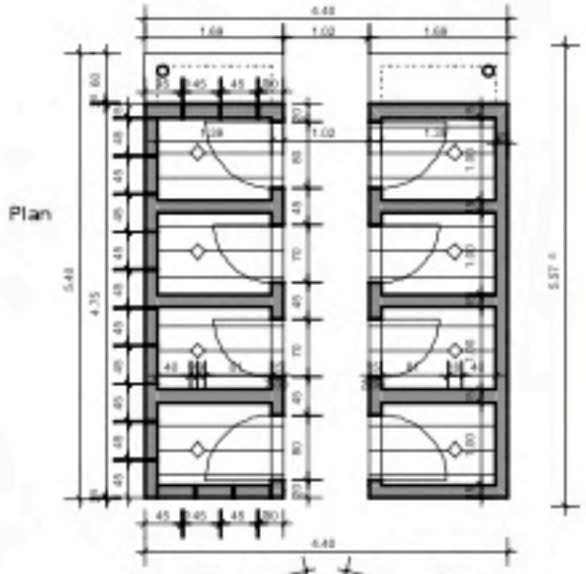
SAMPLE OF A COMMUNITY LATRINE SHARED BY 4 – 9 FAMILIES

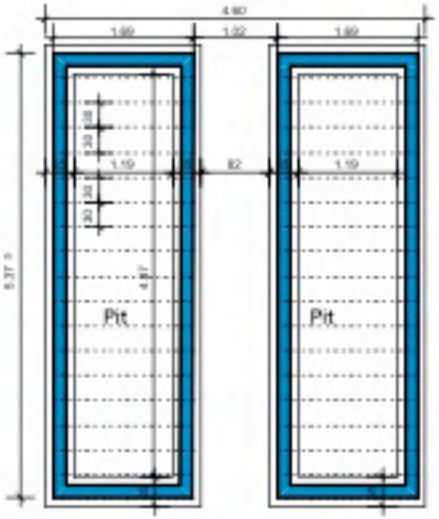
Problem of cleanness and Healt

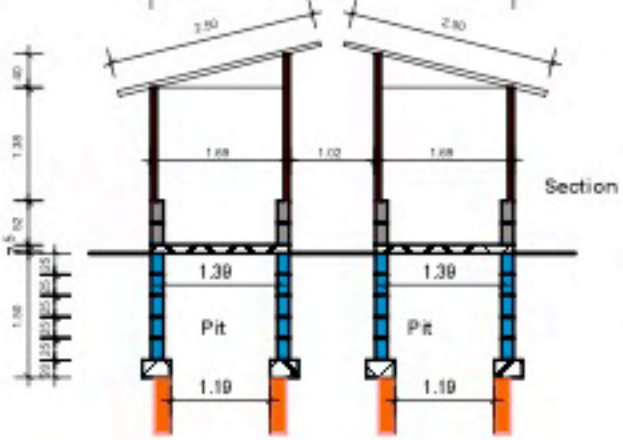
- **1st step on my mission: to repair in a emergency action**
  till end of August (start of the new school year) 280 very simple latrines

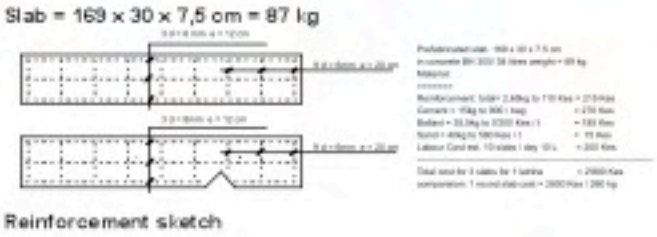
and to increase the number of the slab production in all 3 camps…so we had produced till end of the year 2'500 new slabs for community latrines

According my drawing we had built in each of the 22 schools 1 bloc with
8 semi-permanent latrines for girls and 1 bloc with 8 semi-permanent for boys









Proposal Semi - permanent latrine block with 8 latrines

UNHCR Kenya, SO Dadaab Peter Bommeli, Arch, Nairobi 31.10.2008

NEW HOSPITAL IN IFO CAMP

The Kitchen

NEW ROAD DADAAB - IFO

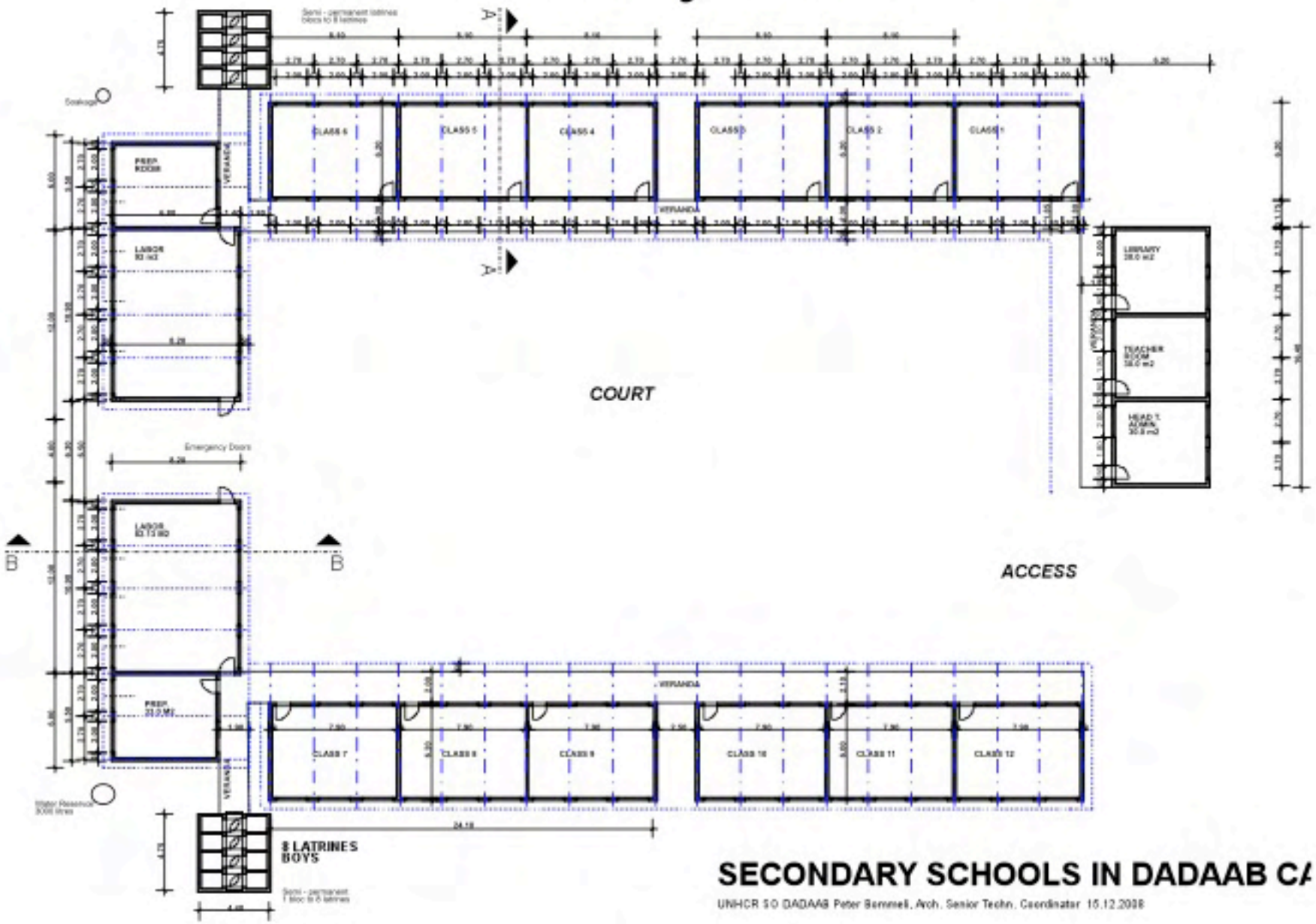
USA

7 KM OF NEW ROAD IN THE DESSERT …..
ALL THE GRAVEL AND CEMENT HAS
TO BE TRANSPORTED 500 KM FROM NAIROBI

Production of Cement Tiles

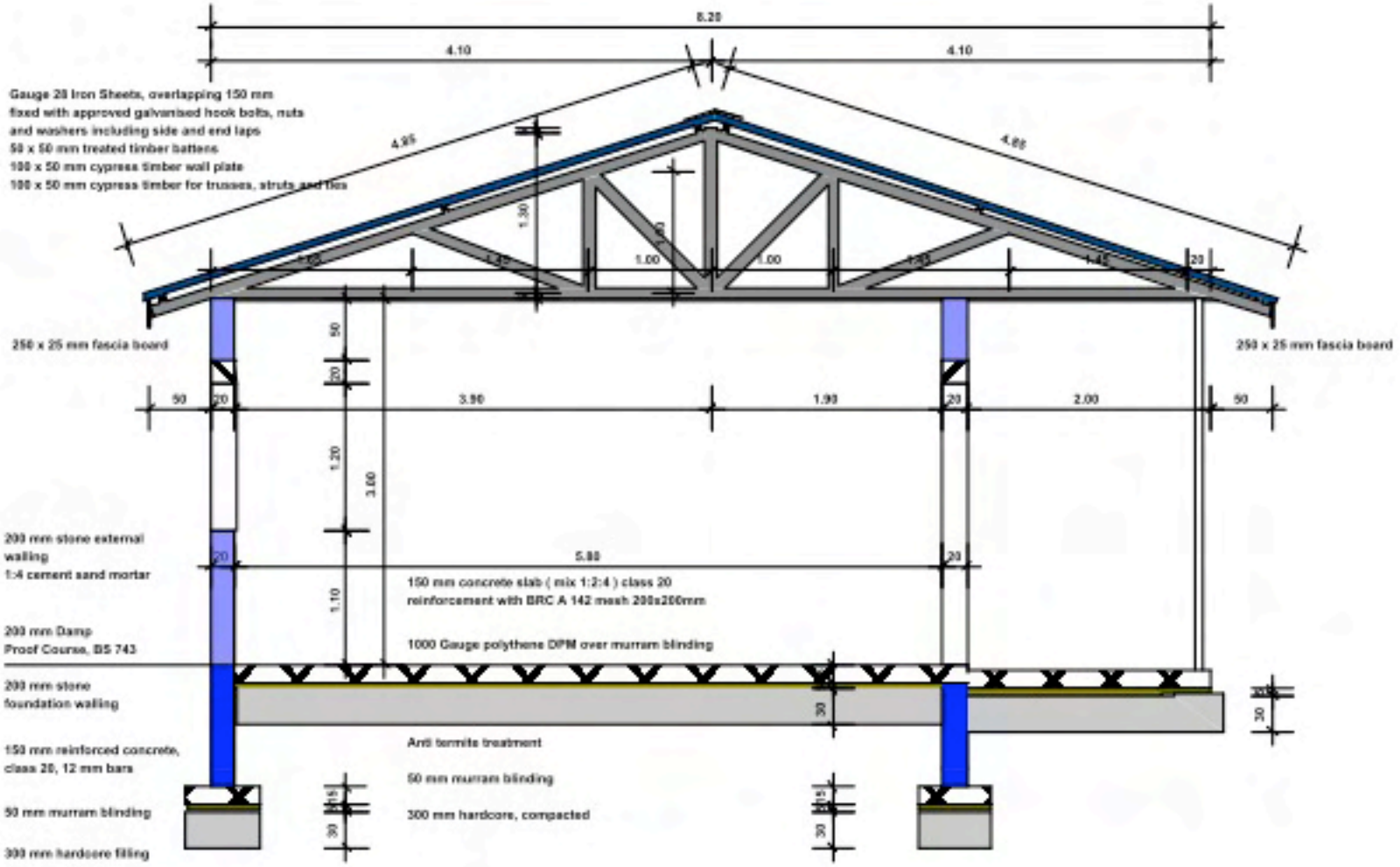
School buildings – missing 240 classrooms

New Secondary School



SECONDARY SCHOOLS IN DADAAB CA

UNHCR SO DADAAB Peter Bemmeli, Arch. Senior Techn. Coordinator 15.12.2008



SECTION A - A (Classrooms and Admin. Block)

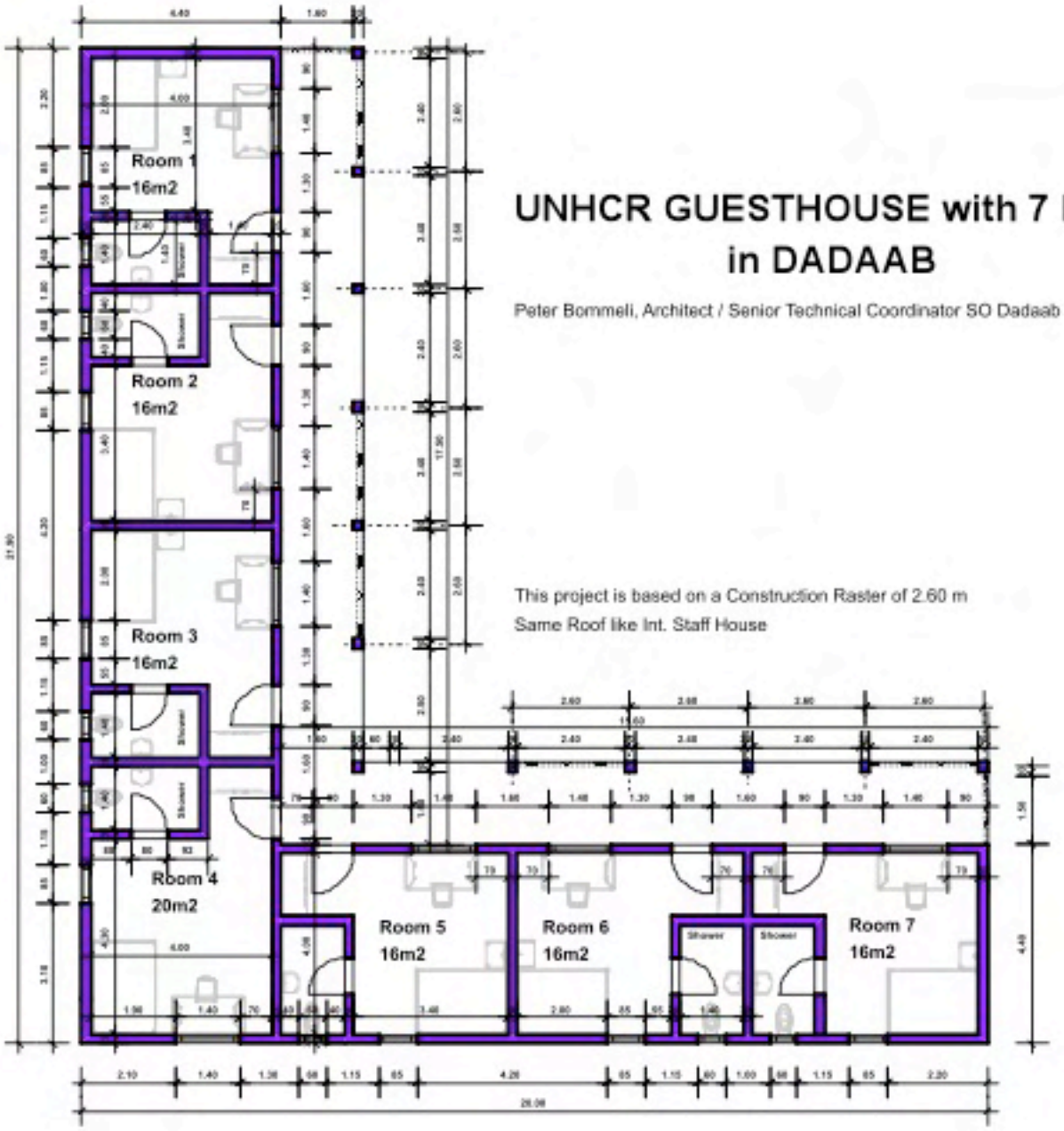
UNHCR Technical Unit Dadaab , Peter Bommeli Arch. / Senior Technical Coordinator 15.12. 2008

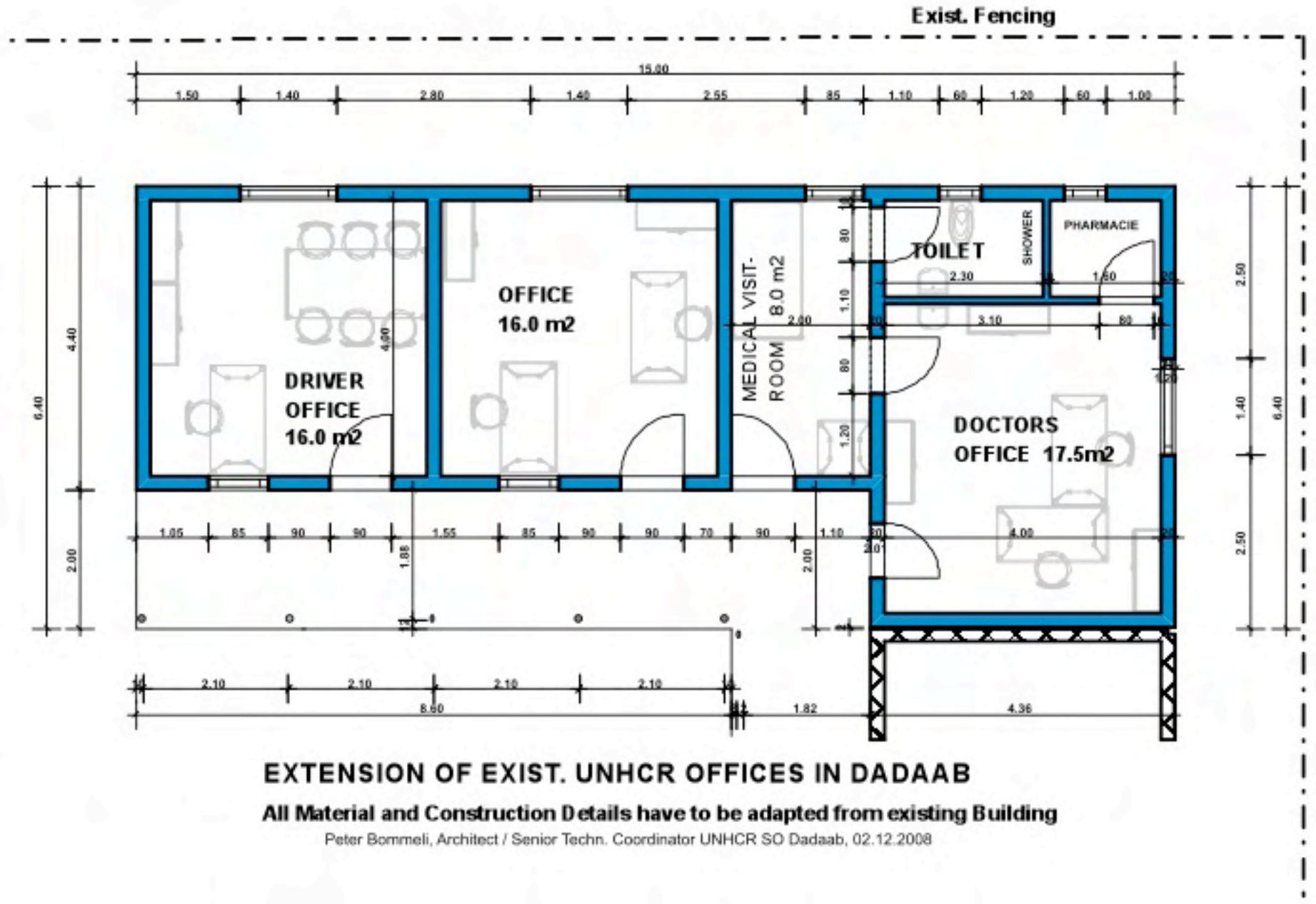
Typical new classroom 48 m2

UNHCR GUESTHOUSE with 7 ROOMS in DADAAB

Peter Bommeli, Architect / Senior Technical Coordinator SO Dadaab 20.11.2008

This project is based on a Construction Raster of 2.60 m
Same Roof like Int. Staff House





EXTENSION OF EXIST. UNHCR OFFICES IN DADAAB

All Material and Construction Details have to be adapted from existing Building

Peter Bommeli, Architect / Senior Techn. Coordinator UNHCR SO Dadaab, 02.12.2008

MAINTENANCE OF BUILDING
part of them are 17 years old

DADAAB POLICE POST….UNHCR COMPOUND …

Roof of the Police Canteen in Dadaab…close to the rainy season