



EcoSan promotion Project

CONSTRUCTION WORK OF TWO INSTITUTIONAL UDDT, HOUSE HOLD TOILET AND FERRO-CEMENT WATER TANK –BUTERE-MUMIAS

Beneficiary: Khaimba Primary school

Donor : GTZ, Sida, EU

Implementing Agent : Kwaho



gtz

Sida



Report Compiled by Moses Wakala
EU/GTZ-EcoSan Technical Expert.

Butere-Mumias Field report April 2008

NOTES:
 All measurements in mm.
 No alterations to be done without the approval of the Designer.

Foundation Depth to be determined as follows.

All plumbing and drainage works to comply with the current specifications.

All structural members should be done 3002A.

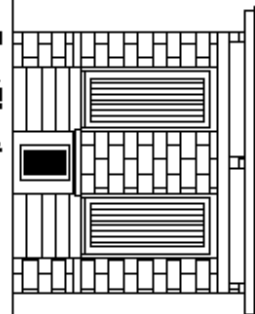
Height/depth to be checked by structural engineer before construction.

Reinforcement walling to be 1:2.5:10mm thick.

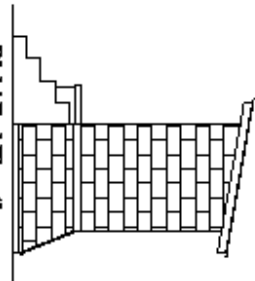
All exposed surfaces walling to be finished with long form of every alternate course.

Concrete minimum cover:

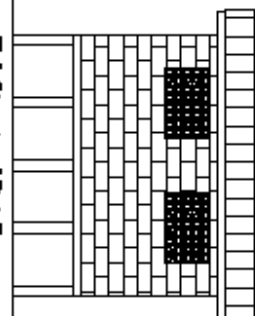
- Foundations - 25mm
- Columns - 25mm
- Slabs - 20mm
- Walls - 20mm



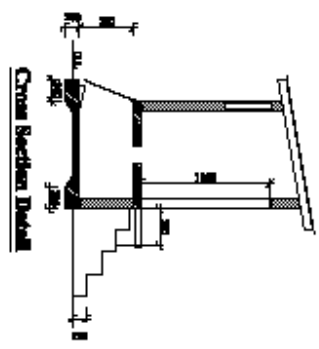
Front Elevation



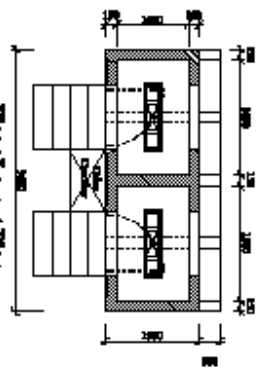
Right End Elevation



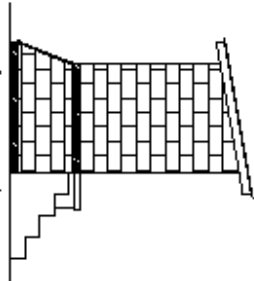
Slab Structural Detail



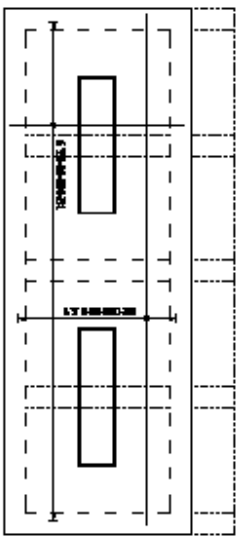
Cross Section Detail



Floor Layout Plan



Left End Elevation



Slab Structural Detail

RUFITZ Erection PRODUCTION PROJECT			
OWNER	V.A. Wilson	DESIGNER	WATERLOO CONSULTING
ARCHITECT	W.A. Wilson	PROJECT MANAGER	WATERLOO CONSULTING
ISSUED FOR	1/20	DATE	10/1/2008

Photographic Documentation 1



Laying the foundation for UDDT and rain water harvesting Ferro-cement Tank

Photographic Documentation 2



Wall construction for the UDDT by the technicians with brick vent openings

Photographic Documentation 3



Wall construction for the institutional toilet

Photographic documentation 4



Shuttering and slab casting for the UDDT

Photographic Documentation 5



Fixing of the squat pan before casting of slab in UDDT

Photographic Documentation 6



1



2



3



4

1. Floor finishing with the squat pans.
2. The stairs and the urine storage chamber.
3. Actual view of the UDDT
4. Workshop participants admire the almost finished toilet.