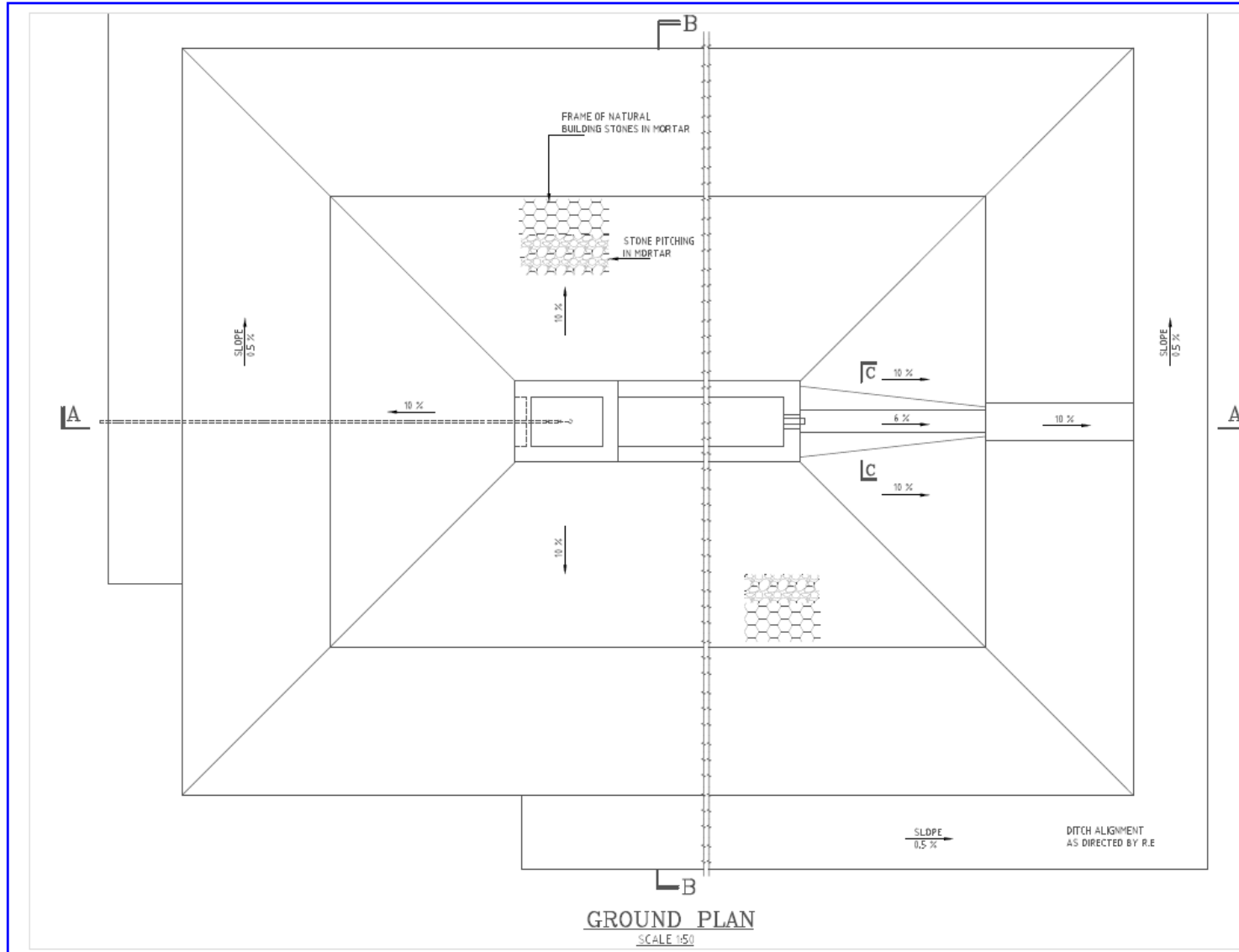


# DRAWINGS



## NOTES:


1. All dimensions are in millimetres unless otherwise stated.
2. Only figured dimensions to be taken from this drawing.
3. All reinforced concrete to grade C25 unless stated otherwise
4. All binding concrete to grade C15

NO.	REVISIONS	BY	DATE	APPROVED
1	Issue for	BY		
2		BY		
3		BY		
4		BY		
5		BY		
6		BY		


## Structure Type:

### CATTLE TROUGH

## Client:

 Northern Water Services Board  
P. O. Box 4016, T01 00  
[www.nwsb.co.ke](http://www.nwsb.co.ke)

## Funding Agency:

 Government of The Republic of Kenya  
Through the National Treasury  
Treasury Building, Ngara Road, Nairobi  
P.O. Box 30000, Nairobi  
Kenya

## Project:

**EQUILIZATION FUNDS WATER PANS**

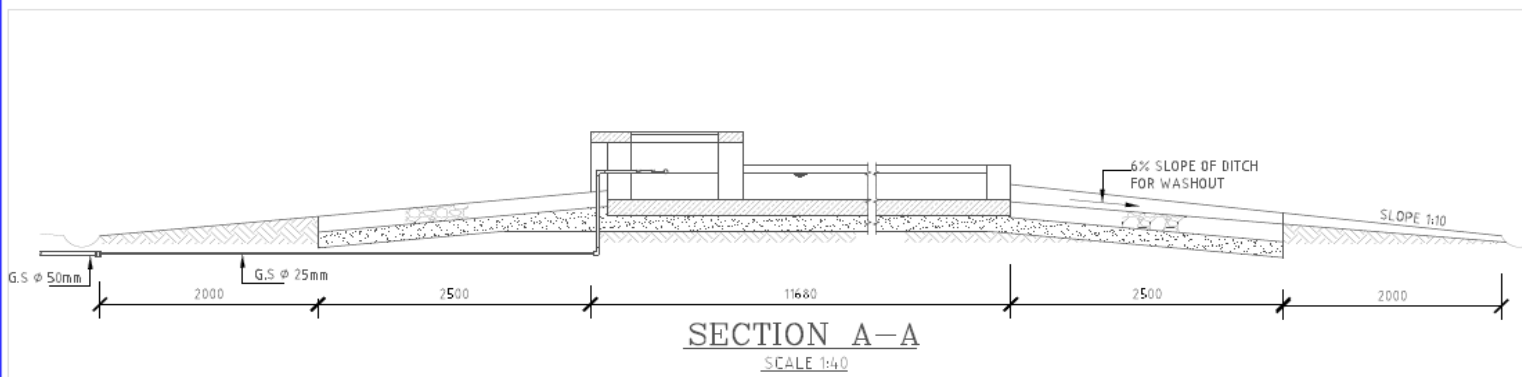
## Technical Support:

 Technical Services Manager  
Northern Water Services Board  
P. O. Box 4016, T01 00  
[www.nwsb.co.ke](http://www.nwsb.co.ke)

## Drawing Title:

**Plan Layout**

Surveyed by: <b>M Nyambaka</b>	Drawn by: <b>J Mutai</b>
Checked by: <b>Ray Njoki</b>	Approved by:
Scale: 1:50	Date: Dec 2016
Job No:	Sheet 1 of 3
DRAWING No: NWSS/BO/GEN/FP/107	



**SECTION A-A**  
SCALE 1:40

- NOTES:**
1. All dimensions are in millimetres unless otherwise stated.
  2. Only figured dimensions to be taken from this drawing.
  3. All reinforced concrete to be grade C25 unless stated otherwise
  4. All blinding concrete to grade C15

NO.	REVISIONS	BY	DATE	REMARKS
B	CHANGED		2024	
C	CHANGED			
H	CHANGED			
A	CHANGED			

Structure Type:  
**CATTLE TROUGH**

Client:  

**Northern Water Services Board**  
 P. O. Box 4951, T201 002  
 GARUDA

Funding Agency:  

**Government of The Republic of Kenya**  
 Through the National Treasury  
 Technical Services Department  
 P.O. Box 10242, Nairobi  
 KENYA

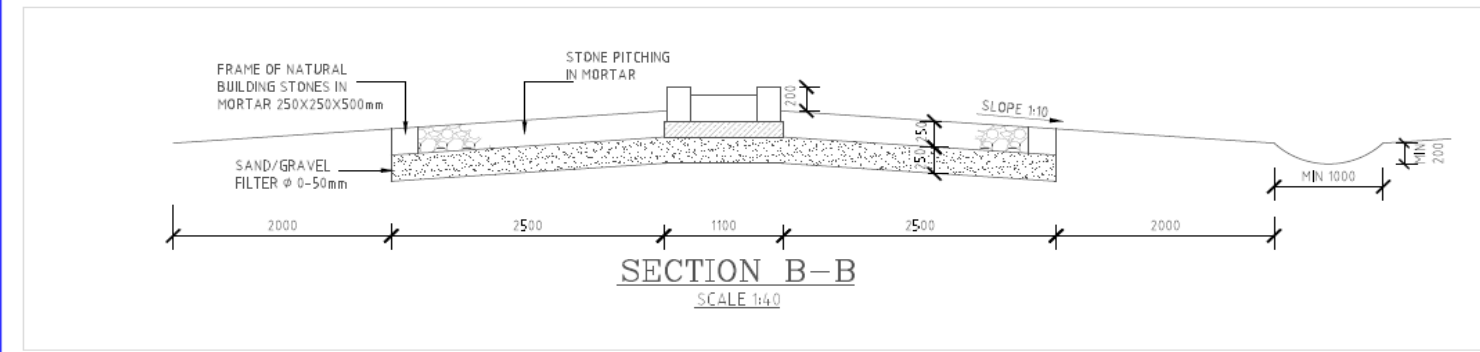
Project:  
**EQUILIZATION FUNDS WATER PANS**

Technical Support:  

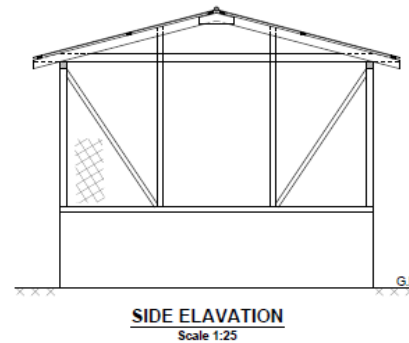
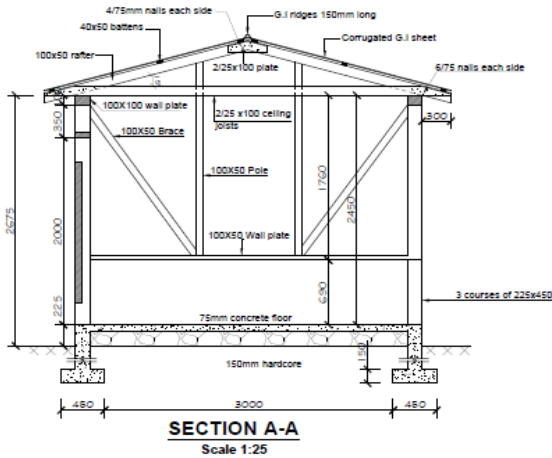
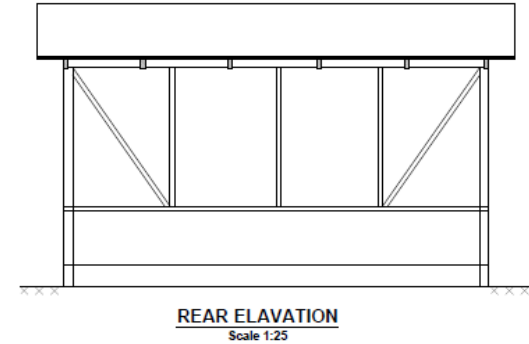
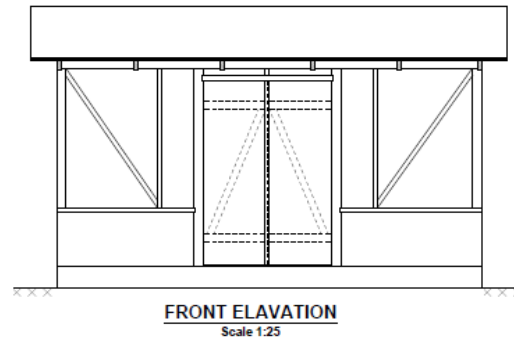
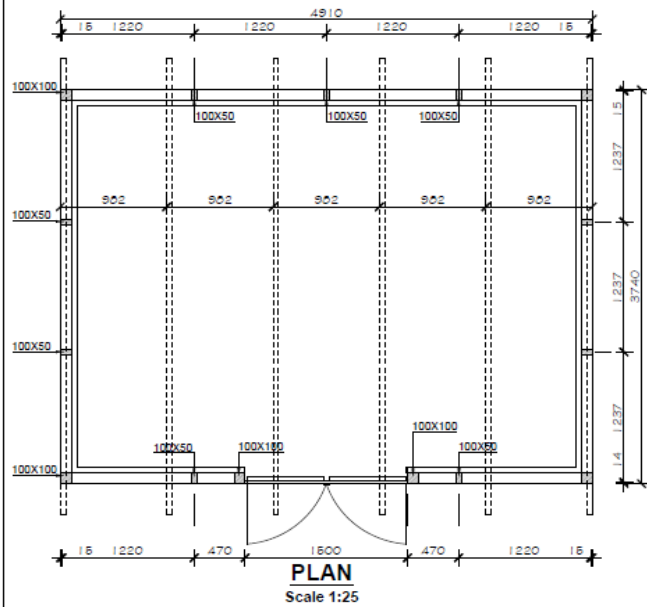
**Technical Services Manager**  
**Northern Water Services Board**  
 P. O. Box 4951, T201 002  
 GARUDA

Drawing Title:  
**Sections**

Surveyed by: <b>M Nyandwe</b>	Drawn by: <b>J Mutai</b>
Checked by: <b>Eng Robert</b>	Approved by:
Scale: <b>AS SHOWN</b>	Date: <b>Dec 2024</b>
Job No.:	Sheet 2 of 3
P. O. Box:	DRAWING No. <b>NWSB/EQ/GEN/WP/07</b>



**SECTION B-B**  
SCALE 1:40



**NOTES:**

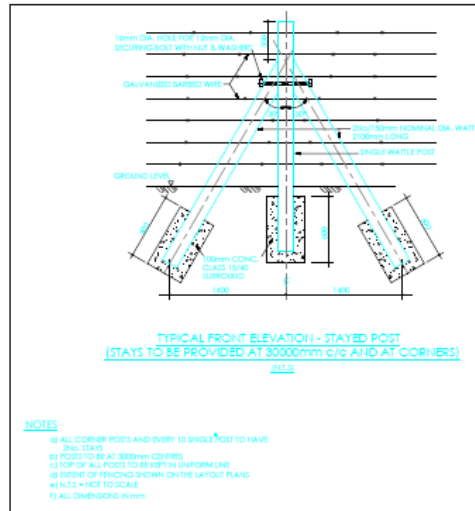
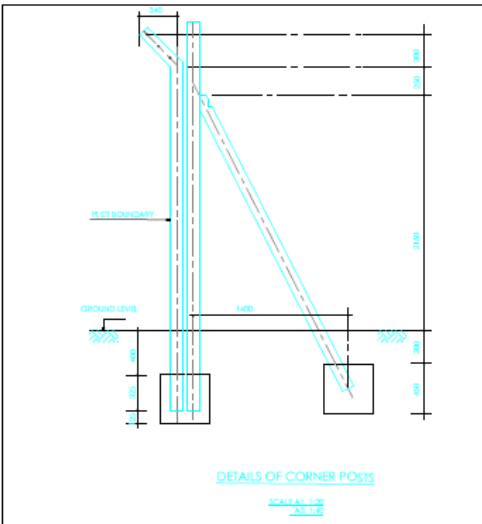
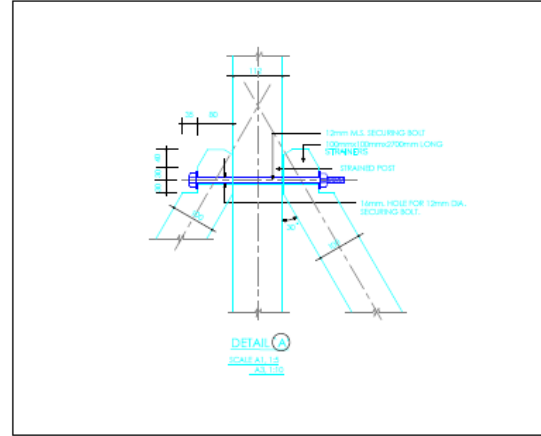
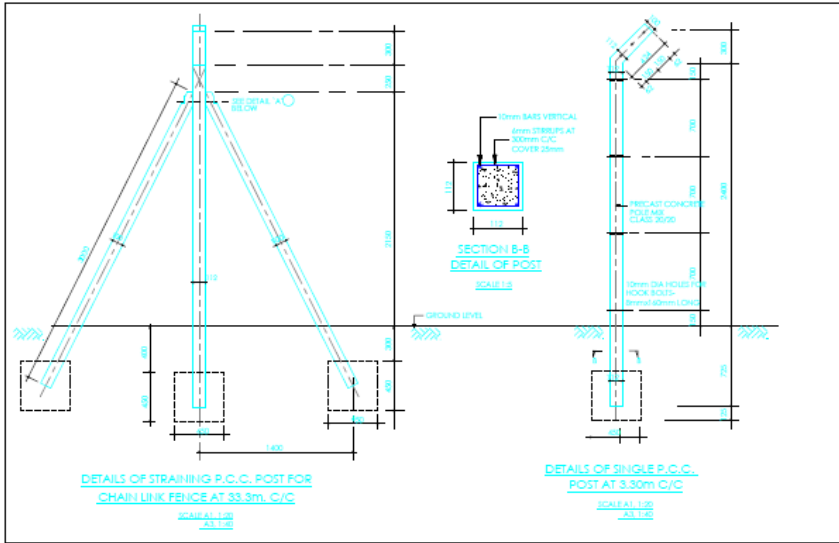
1. All timber wall frames shall be covered with 50x50mmx8G steel mesh up to the roofing sheets
2. All joints in steel mesh shall be covered with 18x50mm battens
3. All timber shall be from 2nd quality celluled podo or cypress
4. Walls shall be constructed from approved masonry or call coral blocks
5. Concrete mixtures shall be 1:3:6
6. Rafter ceiling joists and plates shall be nailed with 75mm nails
7. 37x50mm battens shall be nailed with 100mm nails
8. Wall plates shall be secured with 12x300mm bolts at 1500mm centres (max. spacing)
9. Doors shall be made as a match boarded doors ledged and braced with 18x100mm and screwed with 18mm galvanized screws
10. Door hardware: 2pair 200mm hinges, Tee, Iron  
2 Bolts barrel Iron 125mm.

**NORTHERN WATER  
SERVICES BOARD**

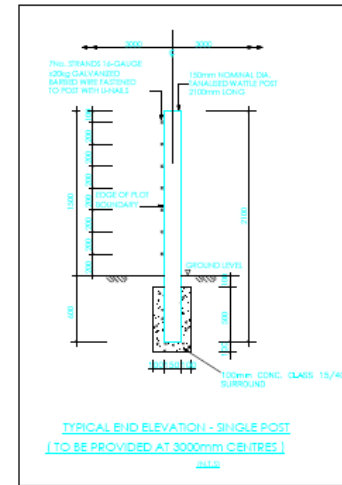


**TYPE 4880X3710MM PUMP HOUSE  
PLAN, SECTION AND ELEVATIONS**

DESIGNED			SHEET 1 OF 1
TRACED	Mwanyalo		SCALE: AS SHOWN
DRAWN	G.N.N	NOV 2010	DRG. NO.
CHECKED	END. D.N.S NLE	DEC 2010	M.W.I
APPROVED			001-SI-005



- NOTES**
- 1) ALL CORNER POSTS AND EVERY 10th SINGLE POST TO HAVE 2 No. STAYS
  - 2) POSTS TO BE AT 3000mm CENTRES
  - 3) TOP OF ALL POSTS TO BE KEPT IN UNIFORM LINE
  - 4) BE CAREFUL OF FINISHING SHOWN ON THE LAYOUT PLANS
  - 5) WALLS = NOT TO SCALE
  - 6) ALL DIMENSIONS IN mm



- NOTES**
- 1) APPROXIMATELY EVERY 10th POST TO BE STRAINED
  - 2) POST TO BE AT 3000mm CENTRES
  - 3) TOP OF ALL POSTS TO BE KEPT IN UNIFORM LINE
  - 4) CONCRETE MOVES FOR:
    1. POSTS CLASS 20/30
    2. STRAINER POSTS CLASS 20/30
    3. FOUNDATION BLOCK CLASS 15/20 CONC.
  - 5) CHAIN LINK TO BE IN GAUGE 12 GALVANIZED STEEL WIRE
  - 6) STRAINING WIRES TO BE 12 GAUGE GALVANIZED STEEL PLAIN WIRES
  - 7) WIRES ON CHAIN TO BE 14 GAUGE GALVANIZED STEEL BAISSD WIRES
  - 8) ALL STRUCTURAL OPENING DIMENSIONS TO BE CONFIRMED ON SITE BEFORE COMMENCING ANY FABRICATION
  - 9) STRAINING WIRES TO BE PILED TO POST WITH GALVANIZED NUT BOLTS 8mm DIA x 80mm LONG
  - 10) WHERE THE POST ENCOACHES ON PRIVATE LAND THE FENCE SHOULD BE ERRECTED WITH CHAIN POINTING TOWARDS THE SITE
  - 11) ALL DIMENSIONS ARE IN mm, UNLESS OTHERWISE STATED
  - 12) C/C = CENTRE TO CENTRE
  - 13) C/L = CENTRES
  - 14) M.S. = MILD STEEL
  - 15) P.C.C. = PRECAST CEMENT CONCRETE

NO	REVISIONS	REV	DATE	APPROVED
1	ISSUED	01		
2				
3				
4				
5				
6				
7				
8				
9				
10				

**PROJECT**  
EQUALIZATION FUND PROJECT

**Client:**  
Northern Water Services Board  
P. O. Box 495, 70 00, GABRIOLA

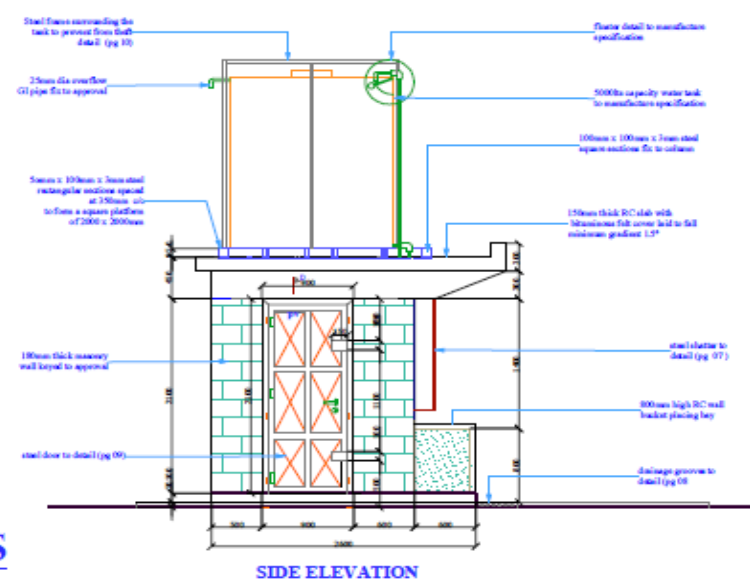
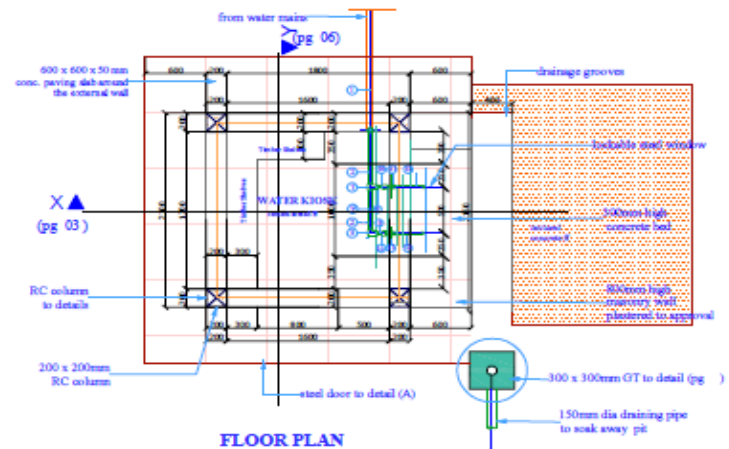
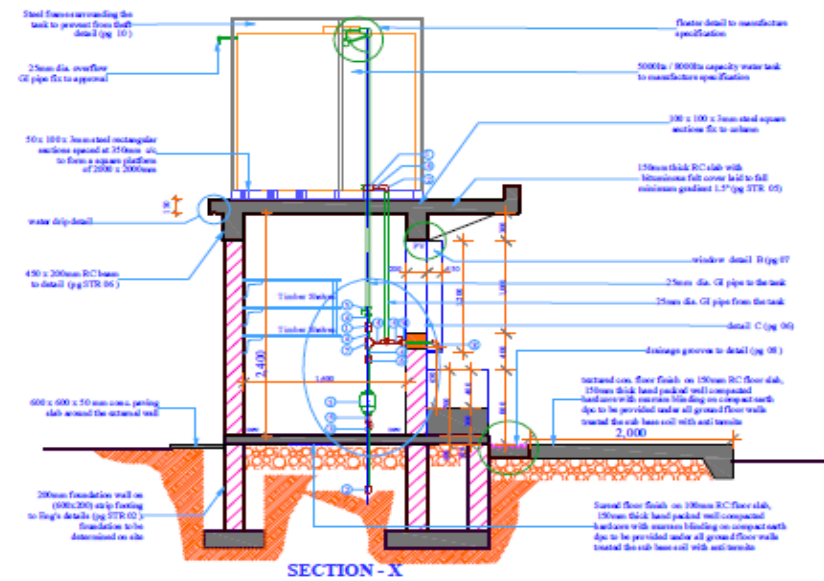
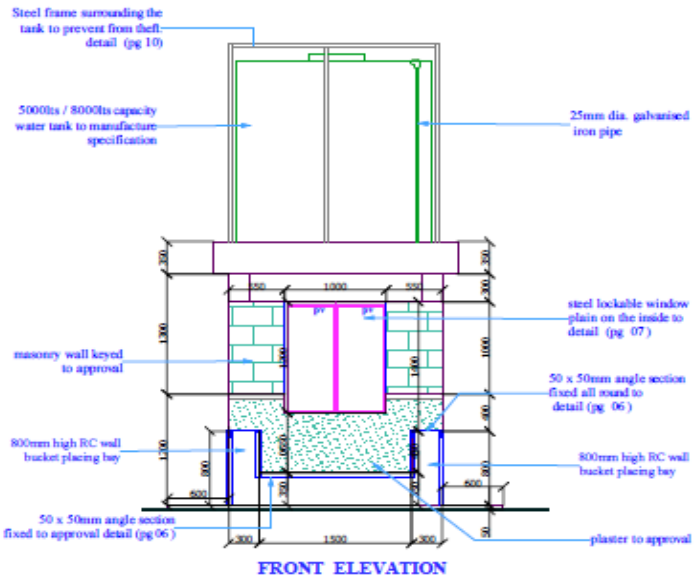
**Client:**  
Northern Water Services Board  
P. O. Box 495, 70 00, GABRIOLA

**Specific Project:**

**Engineer:**  
The Technical Services Manager  
Northern Water Services Board  
P. O. Box 495, 70 00, GABRIOLA

**Drawing Title:**  
**FENCE DETAILS**

Surveyed by: <b>G. Mpanigona</b>	Drawn by: <b>G. Mpanigona</b>
Checked by: <b>Ray Mabel</b>	Approved by:
Scale: 1:1000	Date: <b>June 2017</b>
Job No.:	Sheet:
1 of 1	DRAWING No.:



# STANDARD WATER KIOSK DETAILS