

ITEM	DESCRIPTION	QTY	UNIT	RATE (Ksh)	AMOUNT (Ksh)
	<b>SUMMARY OF BUILDERS WORK</b>				
1	WATER KIOSK	1	Block		
2	CATTLE TROUGH	1	Block		
	<b>GRAND TOTAL COST</b>				

**St Angiro Water Kiosk- Homa Bay County**

ITEM NO.	ITEM DESCRIPTION	UNIT	QTY	RATE (KSH)	AMOUNT (KSH)
	<b><u>ELEMENT NO. 1: EXCAVATIONS AND EARTH WORKS</u></b>				
	<u>Excavation including maintaining and supporting sides and keeping bottoms free from water and mud or other foreign material</u>				
A	General excavation to remove top soil to an average depth of 250mm	SM	18.40		
B	Excavation for wall footing at a depth not exceeding 1200 mm deep	CM	7.49		
C	Excavation for front area depth not exceeding 250mm	CM	1.56		
D	Cart away surplus excavated material and deposit at recommended area	CM	3.81		
E	300mm thick approved hardcore, well compacted in layers not exceeding 150mm and blinding using 50mm murrum/quarry dust	CM	5.52		
F	Gauge 1000 polythene damp proof membrane on 50mm minimum blinding	SM	7.18		
	<u>Anti-Termite Treatment</u>				
G	Apply gladiator or equal and approved anti-termite treatment to surfaces of excavation.	SM	18.40		
	<b>TOTAL CARRIED TO SUMMARY</b>				-
	<b><u>ELEMENT 2: MASONRY WORK</u></b>				
A	150 x 225 x 450mm natural stone to walls for superstructure walling in 1:3 sand/cement mortar finished with steel finished on one side. Rate to include mild all reinforcement at every course.	SM	24.96		
B	150 x 225 x 450mm natural stone to walls for substructure walling in 1:3 sand/cement mortar. Rate to include mild all reinforcement at every course	SM	8.32		

C	Provision the supply and installation of 6" x 8" x 8" concrete ventilation blocks with mesh/ fly net for ventilation	no	8.00		
D	150mm wide DPM to walls	M	10.40		
<b>TOTAL CARRIED TO SUMMARY</b>					-
<b>ELEMENT 3: CONCRETE WORK</b>					
A	Concrete grade 15/20 - 400m thick plinth	CM	1.25		
B	Concrete grade 15/20- 100mm thick slanting front area	CM	0.75		
C	Reinforced concrete grade 25/20- 125mm thick floor slab	CM	1.58		
D	Reinforced concrete grade 25/20- 150mm thick roof slab	CM	1.22		
E	Reinforced concrete grade 25/20 - 600x 200mm strip footing	CM	2.06		
F	Concrete grade 15/20 - to soak pit cover 100mm thick	CM	0.22		
G	Concrete grade 15/20- to catchpit base slab	CM	0.05		
H	Reinforced concrete grade 25/20 - 1050 x 900 x 300 mm column footing	CM	1.36		
I	Reinforced concrete grade 25/20 - 200 x 200mm columns	CM	0.12		
J	Reinforced concrete grade 25/20 in 300mm x 200mm thick ring beam	CM	0.75		
<b>TOTAL CARRIED TO SUMMARY</b>					-
<b>ELEMENT 4: CONCRETE ANCILLIARIES</b>					
<b>Formwork</b>					
	Provide, cut and fix in position sawn timber formwork or equivalent for:				
A	Side of foundation footing,150mm wide	SM	3.12		
B	Edges around floor slab, 125mm wide	SM	27.60		
C	Sides of lintel, 300mm deep	SM	9.36		
D	Edge of 400mm deep plinth	SM	8.32		

E	Edge of roof slab, 150mm wide	SM	3.12		
F	Underneath roof slab,including props	LM	1.00		
	<b>Reinforcement</b>				
	Steel reinforcement, cut, bend and placed in position, unit price to include cutting, bending and placing in position with binding wire and concrete seats:				
A	BRC A142 MS reinforcement mesh for flood slab	SM	18.40		
B	12 mm diameter high tensile steel for foundation wall footing (0.89kg/m)	KG	34.89		
C	8mm diameter mild steel (0.4kg/m) in wall footing	KG	12.48		
D	12mm diameter high tensile steel (0.89kg/m) in columns	KG	45.57		
R	8mm diameter mild steel (0.4kg/m) in columns	KG	35.20		
F	12mm diameter mild steel (0.89kg/m) in ring beam	KG	55.54		
G	8mm diameter mild steel (0.4kg/m) in ring beam	KG	41.60		
H	10mm diameter high tensile steel (0.62kg/m) in roof slab	KG	96.72		
	<b>TOTAL CARRIED TO SUMMARY</b>				-
	<b>ELEMENT 5: FIXTURES</b>				
	Supply and installation of the following as per the site engineer's provisions:				
A	2000 x 1000mm steel door including locks and hinges to detail	No	1.00		
B	1200 x 1000mm steel swing side hung windows including locks, hinges and burglar proofing grille to detail (preferably flat panels)	No	1.00		
C	Build in timber shelves fixed to the wall to detail	LS	1.00		
D	Meter box,220 x 220 x 300 lockable	No	1.00		
	<b>TOTAL CARRIED TO SUMMARY</b>				-
	<b>ELEMENT 6: ROOF AND SUPPORT STRUCTURE</b>				
A	Provide, fabricate and fix firmly the metallic support and roof structure using 2 inch black pipe capable of covering the 10,000 liter water tank as shall be directed by the engineer on site	LS	1.00		
B	Provide, fabricate and fix firmly 50 x 100 x 3mm (top) and 100 x 100 x 3mm (fixed to column) steel rectangular sections spaced at 350mm c/c to form a 2000 x 2000mm platform	LS	1.00		

C	Supply and fix Gauge 30 galvanized iron sheet metal with trussing firmly fixed on the metallic support for the roof structure	SM	12.00		
<b>TOTAL CARRIED TO SUMMARY</b>					-
<b>ELEMENT 7: PIPES AND FITTINGS</b>					
	All pipes and fittings to be PPR with threads and/or joints accordingly, all piping neatly clamped on the wall where applicable, and all diameters are internal unless otherwise stated:				
A	32mm inlet pipe	m	12.00		
B	32mm dia elbows	No	4.00		
C	32mm dia. Valve sockets	No	2.00		
D	32mm diameter gate valves as Pegler	No	2.00		
E	32 x 25mm reducing Tee	No	4.00		
F	32mm end plug	No	1.00		
G	32mm union	No	4.00		
H	32mm short nipple	No	2.00		
I	25mm union	No	4.00		
J	25mm short nipple	No	8.00		
K	25mm globe valves	No	3.00		
L	25mm elbow	No	3.00		
M	Non-return valve 25mm diameter	No	1.00		
N	32mm Pegler or approved water meter	No	1.00		
<b>TOTAL CARRIED TO SUMMARY</b>					-
<b>ELEMENT 8: FINISHES</b>					
A	Pointing to external wall surfaces with cement sand mortar, 1:2	SM	24.96		
B	Apply plastering to all lintel surfaces -	SM	3.12		
C	Apply plastering to all internal walls -15mm thick cement and sand (1:2) plaster troweled smooth and comprising of 12mm backing and 3mm finish coat.	SM	24.96		
D	Apply plastering to all internal and external floors -32mm thick troweled hard and smooth	SM	18.40		
E	Apply plastering to ceiling - 15mm thick two coat cement lime and sand (1:4) plaster	SM	11.00		
F	Provide three coats of weatherproof paint (such as Crown Permaplast) to all extrnal wall faces wall faces (colours as directed on site)	SM	24.96		
G	Prepare and provide first grade plastic emulsion paint to plastered walls and ceilings, with vinyl silk eemulsion finish.	SM	24.96		

H	Provide three coats of bituminous felt cover on all exposed concrete surfaces.	SM	6.76		
<b>TOTAL CARRIED TO SUMMARY</b>					-
<b><u>ELEMENT 9: DRAINAGE AND WATER SUPPLY</u></b>					
A	Excavate for 400mm x 400 x 900mm catch pit to detail	CM	0.64		
B	Excavate for 1000 x 1000 x 1500mm soak pit to detail	CM	2.16		
C	Provision of a lining for the catch pit with 4" x 8" x 18" blocks	SM	1.60		
D	100mm thick mass concrete for catch pit base slab	CM	0.04		
E	Mass concrete to the soak pit cover slab, inclusive of wire mesh for reinforcement and handle	CM	0.04		
F	Catch pit grating made from welded to form 25mm square mesh on 50mm steel frame	No	1.00		
G	Graded approved free draining hardcore / rubble filling for the soak pit	CM	2.16		
H	6 inch PVC drainage pipe	M	4.00		
I	Provide and install 5,000 liter tank, approved Kentank plastic tank on top of the kiosk roof complete with all fittings and float valve.	No	1.00		
<b>TOTAL CARRIED TO SUMMARY</b>					-
<b><u>SUMMARY</u></b>					
					<b>AMOUNT (KES)</b>
1	<b>EXCAVATIONS AND EARTH WORKS</b>				-
2	<b>MASONRY WORK</b>				-
3	<b>CONCRETE WORKS</b>				
4	<b>CONCRETE ANCILLIARIES</b>				
5	<b>FIXTURES</b>				
6	<b>ROOF AND SUPPORT STRUCTURE</b>				
7	<b>PIPES AND FITTINGS</b>				
8	<b>FINISHES</b>				

9	DRAINAGE AND WATER SUPPLY		
	TOTAL FOR 1 WATER KIOSK	1.00	

# Habitat for Humanity Kenya

## BOQ Livestock Water Trough

	Items	UoM	Qty	Rate (Kshs)	Total (Kshs)
	<b>Substructure &amp; Superstructures</b>				
	<u>Walling and related Earth Products</u>				
1	undressed stone blocks 9"	Pcs	222		
2	Machine cut stone blocks - 9"	Pcs	65		
3	Hardcore	Tonnes	6		
4	Ballast 3/4"	Tonnes	3.5		
5	Murram	Tonnes	1.6		
6	Sand	Tonnes	6.6		
7	Hoop iron - 16 Gauge - 25 Kg	Roll	0.5		
6	Damp proof membrane - 1000 Gauge	Roll	0.5		
	<u>Steel and Steel Products</u>				
9	Reinforcement Bars D8 supplied in 12M length	Pcs	4		
10	Reinforcement Bars D10 supplied in 12M lengths	Pcs	4		
11	Binding Wire	Roll	2		
12	BRC A98 Mesh	Roll	1		
	<u>Timber Products</u>				
13	Timber 8" * 1" Cypress	Ft	131		
	<u>Cement</u>				
14	Cement - 50Kgs	Bags	46.5		
15	waterproof cement as Pudlo -1Kg	Bags	90		
16	Sika 1 waterproofing admixture	Liters	2.25		
	<u>Plumbing</u>				
17	Silicon	Roll	1		
18	Thread Seal Tape	Pcs	2		
19	50mm Dia PN10 - HDPE/PPr Pipe	Metre	10		
20	50 threaded female elbow	Pcs	2		
21	50 Socket pipe Ppr	Pcs	2		
22	50mm Gate Valve	Pcs	2		
23	63-50 reducers Ppr	Pcs	2		
24	110mm dia uPVC waste pipe	Metre	5		
25	110mm Dia UPVC Bend	Pcs	2		





## EVALUATION CRITERIA: CONSTRUCTION OF 1 NO WATER KIOSK & CATTLE TROUGH

### Stage 1: Preliminary Bid Responsiveness Assessment

These are mandatory documents to be attached to the tender document. Absence of any of these documents will lead to the bidder being disqualified and will not be considered proceed to the next stage of evaluation.

Item	Requirement	Yes / No
1.	Certificate of Registration/Incorporation.	
2.	Updated copy of certified CR12 Form	
3.	Current Single Business Permit	
4.	Valid KRA Tax Compliance Certificate	
5.	Valid Registration Certificate from National Construction Authority (NCA 4 or higher ) as water works Contractor or Building works	
6.	Priced Bill of Quantities.	
7.	Bank Statement (January – December 2024)	

### Stage 2: Technical Evaluation Stage

The technical evaluation is weighted out of 100 points with a pass mark of 70 points. Any bidder scoring 70 points and above in the technical evaluation will be considered for financial evaluation stage. Any bidder scoring below 70 Points in the Technical Evaluation will be disqualified from further evaluation.

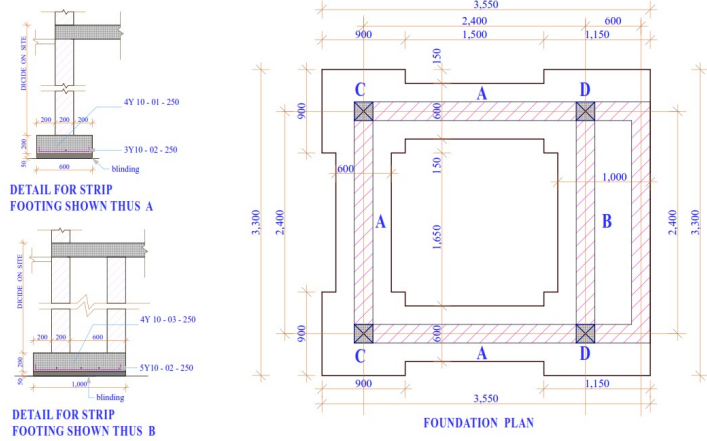
	Particulars/Items	Max Points
1.	Experience in handling the same magnitude of works i.e. construction of water kiosks and cattle troughs. Attach contracts and Completion certificates for at least five different firms. <b>5 points</b> will be awarded for each evidence attached. i. Similar works, similar magnitude - <b>30 points</b> ii. Similar works, lesser magnitude- <b>10 Points</b> iii. No similar works.- <b>0 point</b>	30 points

2.	<p>Technical skill in terms of human resource. Attach CVs and certified copies of academic certificates detailing qualifications of at least two <b>(2) key</b> personnel who shall be involved in this assignment as Site Project Manager or/and Foreman.</p> <p>The persons must be working with the organization by the time of submitting this proposal or sign certificate of commitment to work with the applying organization.</p> <p>Each of the 2 personnel will be evaluated as follows:</p> <p><b>Project manager</b>  At least Degree in Civil engineering or related field (Attach university certificate and CV) – 5 points</p> <p><b>Relevant Experience &amp; Knowledge</b>  Good understanding on reading of production technical drawings  Having worked in at 2 projects of Construction works</p> <ul style="list-style-type: none"> <li>- 8 years’ experience – 5 points</li> <li>- 5 - 7 years’ experience – 2.5 points</li> <li>- Less than 5 years’ experience – 1.5 points</li> <li>- No experience – 0 points</li> </ul> <p><b>Foreman Civil /Water Works</b>  At least Diploma in Civil engineering or related field (Attach reputable college/university certificate and CV) – 5 points</p> <p><b>Relevant Experience &amp; Knowledge</b>  Good understanding on reading of production technical drawings  5 years of general experience in construction works  Having worked in at least 2 construction projects</p> <ul style="list-style-type: none"> <li>- 5 years’ experience – 5 points</li> <li>- 2 - 4 years’ experience – 2.5 points</li> <li>- Less than 2 years – 1 point</li> <li>- No experience – 0 points</li> </ul>	20points
3.	<p>Work plan/Schedule and method statement. Provide a work plan detailing how the assignment will be undertaken and how the overall goals will be achieved as per the schedule which must be within agreeable timeline as follows:</p> <ul style="list-style-type: none"> <li>• Listing of relevant activities for the assignment Indication of responsibilities for respective activities and timelines <b>(20 points)</b></li> <li>• Construction methodology <b>(20 points)</b></li> </ul>	40 points

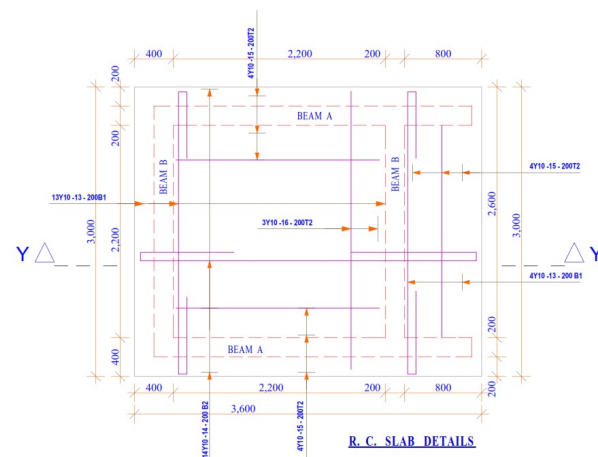
4.	<p>Equipment and plant owned by the company to be directly assigned to the project during the contract period. Provide a list of relevant equipment and accessories showing the status of ownership. Lease agreements will be accepted for those who do not own and may want to lease.</p> <p>i Evidence of the above ownership/lease of the essential equipment. – 10 points</p> <p>ii. Insufficient evidence of the above – 5 points</p> <p>iii. Complete lack of evidence of the above- 0 points</p> <p><b>Essential equipment for Construction</b></p> <ul style="list-style-type: none"> <li>• Transport truck</li> <li>• Concrete mixer</li> <li>• Concrete Vibrating Poker</li> </ul>	10 points
	<b>Total</b>	<b>100 points</b>

### 3) Financial Evaluation Criteria

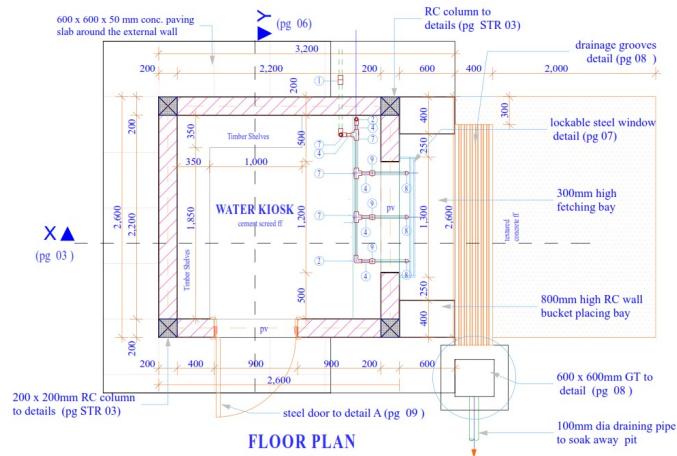
The bidders who pass the technical evaluation will be subjected to a tender price comparison. HFHK will award the Contract to the tenderer whose tender is determined to be substantially responsive to the tender documents and who has offered the lowest evaluated tender price.



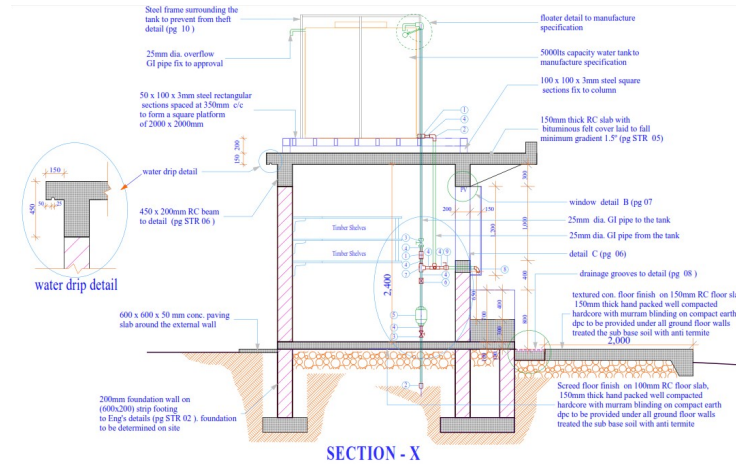
1:1 FOUNDATION PLAN LAYOUT



1:1 ROOF SLAB PLAN LAYOUT



1:1 FLOOR PLAN LAYOUT



1:1 SECTION X-X

NOTES:

GENERAL

- 1.All dimensions are in mm unless otherwise specified.
- 2.Dimensions to be read, not scaled. Only figured dimensions to be used.
- 3.Contractor to check and verify all dimensions on site before commencement of any works.

CONSTRUCTION

- 1.All slabs at ground level to be poured over 1000 gauge polythene sheeting on 50 mm thick murrum blinding layer which on 300 hardcore fill.
- 2.All soil under slabs and all around external foundations to be treated against termites.

STRUCTURAL

- 1.All black cotton soil to be removed from below all building and paved surfaces.
- 2.All soil under slabs and all around external foundations to be treated against termites.
- 2.Building to be clear of black cotton soil within 3m outside the perimeter wall.
- 3.For all R.C works, refer to structural drawings.
- 4.Depth of foundation to be determined on the site to structural Engineers Approval.

MECHANICAL

- 1.All plumbing and drainage to comply with local authority regulations.
- 2.All service ducts to be accessible from all floors.
- 3.SVP denotes soil vent pipe to be provided at the head of the drainage.
- 4.P.V permanent ventilation to be provided on all doors and windows except bathroom and water closet doors.
- 5.All underground foul and waste drain pipes shall be upvc to comply with Bs 5255.
- 6.All inspection chamber covers and framing shall be cast iron to comply with Bs 497 table 2 grade A.
- 7.The storm drain pipe to comply with Bs 556 minimum slope in the drain pipes in 1%.
- 8.All testing of pipes must be done before plastering.

prefix	description	date

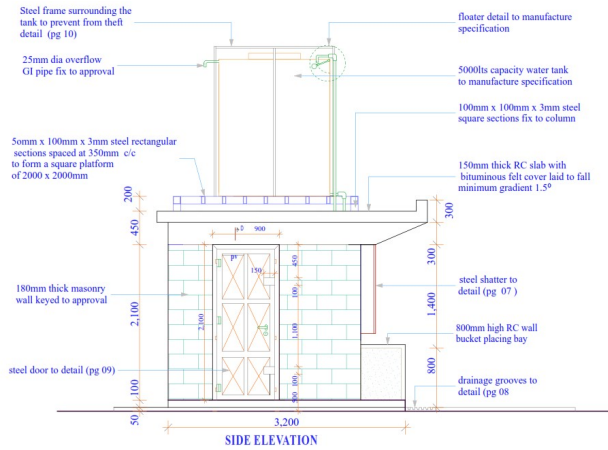
DEVELOPING PARTNERS:  
**HFHK/BMZ/KISUMU COUNTY GOVERNMENT**

PROJECT TITLE:  
**PROPOSED TYPICAL WATER KIOSK AT 5 WATER POINTS IN KOCHOGO SOUTH, KISUMU COUNTY**

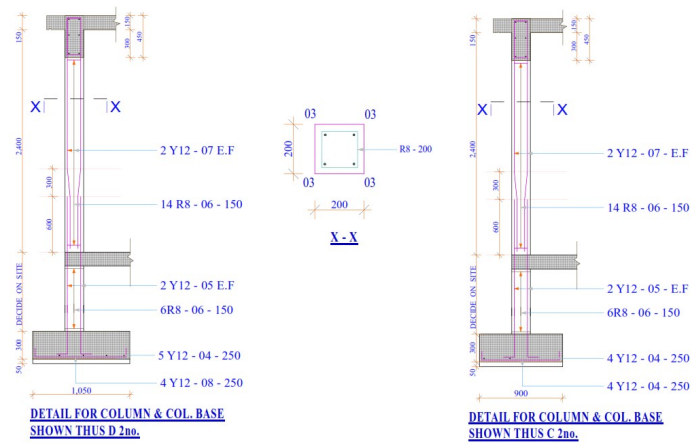
DRAWING TITLE:  
**WORKING DRAWINGS**

Date: 25th January 2023 Scale: As shown  
Designed by: C.M. Drawn by: C.M.

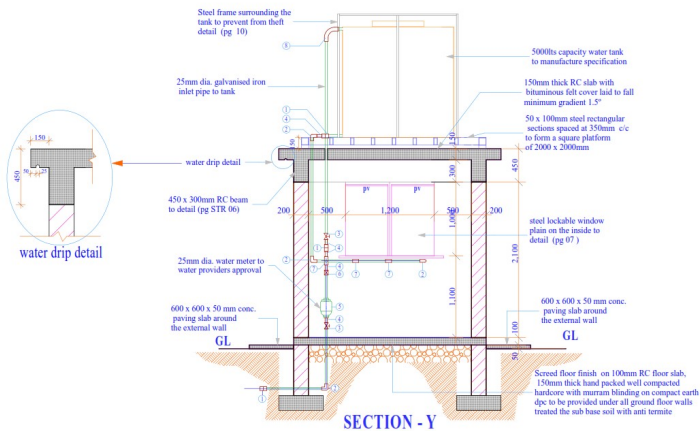




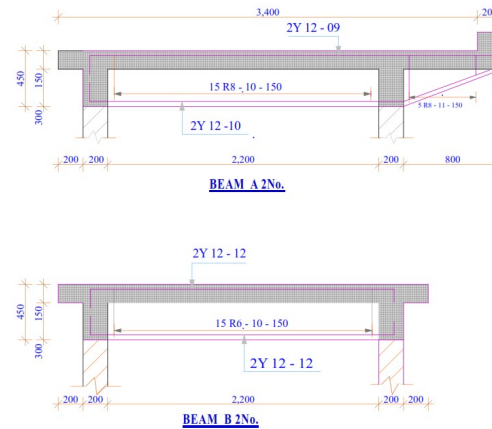
1:1 SIDE ELEVATION 001



1:1 COLUMN DETAILS



1:1 SECTION Y-Y



1:1 BEAM DETAIL

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- 6.All inspection chamber covers and framing shall be cast iron to comply with Bs 497 table 2 grade A.
- 7.The storm drain pipe to comply with Bs 556 minimum slope in the drain pipes in 1%.
- 8.All testing of pipes must be done before plastering.

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DEVELOPING PARTNERS:

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