ForAfrika

INVITATION TO TENDER (ITB)

09th April 2025

REF: ForAfrika/Juba/04/2025/005 (IR-0161)

Dear Sir/Madam,

INVITATION TO TENDER

ForAfrika formerly Joint Aid Management South Sudan ("JAMSS") would like to procure the services/works described herein.

ForAfrika hereby invites competent and legally registered companies to submit their bids for the provision of the below services/works.

S/No.	Description/Items	Unit	Quantity	Rate	Amount
01	Upgrade of 01 existing borehole at Alang , Aweil West	Borehole	01		
02	Upgrade of 01 existing borehole at Mathiang Dut Akot IDP area , Aweil West	Borehole	01		
03	Upgrade of 01 existing borehole at Mathiang Akoong IDP area , Aweil West	Borehole	01		
	Total				

Terms & Conditions.

Provide the following documents,

1. Valid registration Company's Documents
2. Recent three (3) months Bank Statement
3. Office availability
4. Company's Memorandum of Association
5. Valid Tax Clearance Certificate
6. Valid Operations License
7. Recent or previous job references
8. Updated Company's Profile
9. Currency USD
10. Clearly indicate the validity of your quotation
11. Clearly mention the lead time for the delivery of your items.

The closing time and date for submission of bids is at **4:30 PM, 17th April 2025** ForAfrika will not accept bid documents delivered after that time.

ForAfrika reserves the right to cancel the tender process at any time prior to awarding a contract for the Service.

ForAfrika will not be responsible for any costs or expenses incurred by you in connection with preparing and delivering your tender regardless of the outcome of the tender process.

At any time prior to the Submission Deadline, you may make inquiries with, or seek further information or clarifications through the following email: **jamss.logs@jamint.com**

NB: Complete tender documents MUST be submitted in HARD COPIES

You can submit and Address your bids to,

Procurement Department ForAfrika
6th Flour Equatoria/UAP Tower
Hai Neem, Juba South Sudan

Email: **jamss.logs@jamint.com CC: j.samuel@forAfrika.org**

Yours faithfully

Procurement Department- ForAfrika

ForAfrika SOUTH SUDAN

BOQ CODE: FORAFRIKA/BH/NBeG/2025

ForAfrika

Drawing Number:- ForAfrika/South Sudan/NBeG/2025/

Project Title :- Drilling of a new borehole with 6m x 10cu.m solar water scheme, at NBeG

Date

Specification:- Drilling of 6m high solar powered boreholes in PHCC without water supply with 10,000 liters storage tanks supplying 10 tap head to serve 2500 people.

Location Aweil East and West

State NBeG

Item No	Items Description	Unit	Quantity	Rate (USD)	Total Cost (USD)
	Bill No : 01 - PRELIMINARIES				
1.1	Allow for mobilization and demobilization at borehole site of all construction equipment and maintain drill rigs for the complete construction of boreholes with all accessories, associated arrangement, auxiliary works, personnel as well as withdrawal after completion and successful drilling. Site establishments including amenities as necessary. Access roads, site security and all risk insurance.	Ls	1		-
	Preliminaries Carried To Summary				-
	Bill No. 02 - BORE HOLE DRILLING WORKS				
	Drilling of borehole				
2.1	Conduct confirmatory geophysical survey (field work, interpretation and report) for the location of borehole at a suitable site use geoelectrical sounding (VES, vertical electrical sounding), profiling (CST, constant separation traversing) are the standard (*), and electrical resistivity tomography (ERT) - atleast 4 points	Ls	1		-
2.2	Drilling of 6.3 inches (160.02 mm)dia open hole through basement / Sedimentary formation, to accommodate 5 inches (127 mm) dia permanent casing, including all drilling fluids and lubricants, disposal of excavated material, taking any remedial measures to overcome caving in or over drilling to accommodate sloughed materials and keeping drilling record as specified between ground level and 30m below ground level.	m	120		-
2.3	Allow for taking sample of drill cuttings at two (2m) intervals through out the drilling	m	120		-
	Bore Hole installation				-
2.4	Supply and install 5" 16bar MUTUNCHI PVC **threaded joint** uPVC slotted screen casing 5" in diameter (internal diameter) with minimum thickness of 3mm and 3m length.	m	40		-
2.5	Supply and install 5" 16bar PVC **threaded joint** uPVC solid plain casing 5" in diameter (internal diameter) with minimum thickness of 3mm	m	60		-
2.6	Supply and installation of filter gravel pack. (average dept 140m and standard thickness 50mm). Filter gravel siliceous, rounded with diameter of 2.0 - 4.0 mm depending on screen slot size.	m	25		-
2.7	Backfilling wall, annulus and casings, back filling and, sealing abortive borehole if applicable	Ls	1		-
	Borehole development				-
2.8	Flushing and development of borehole by airlifting, jetting, and pumping to attain optimum yield and clean water for minimum of 8 hours including measurements, records and proper disposal of water and in the presence of ForAfrika Engineer	Ls	1		-
2.9	Supply and place cement grout in borehole anulus aronud the casing and construction of concrete slab around the well cap (minimum of 10m depth required)	m	10		-
	Construct well head casing as specified	Ls	1		-
	Pumping Tests and Water Quality Analysis				-
2.1	Execution of **Step Drawdown Test** to determine the hydraulic perfermance of the well (Min 8 hrs) with 4 steps (2hr each) of increasing yields and ending with 8 - 10 cu.m/h followed by a **Constant Rate Test** (min. 12 hours) and full recovery measured, to determine the long term sustainability yield of te borehole including measurement of GW level and yield, recording of EC, pH and temperature of the groundwater every hour during pumpping. A pump with minimum capacity of 2.5 cu.m/h and hydraulic head of 65m must be available with all equipments (generators, cables, discharge hose of 100m to ensure safe disposal of water from borehole and other anciliary materials). Submission of data in digital form and printouts (data sheet and graphs)	Hours	12		-
2.11	Recovery Test (min. 6 hours), including measurement and records of water level, submission of data in digital form and printouts (data sheet and graphs)	hours	12		-
2.12	A minimum of 2 litres each for chemical and bacteriological analysis shall be collected by the contractor in the presence of the Engineer or his representative. (3) Water samples should be collected in clean, sterilized properly sealed and protected plastic containers from the borehole for reference to a Water Testing Authority recognized and authorized by MWR&I for laboratory analysis, after completion of test pumping. One sample will be used for each of these tests: physical, chemical and bacteriological analyses. The samples so collected should reach the authorized Water Testing Laboratories (Ministry of Water Resources and Irrigation), within 6 hours from the time of collection from the borehole unless otherwise. Specific parameters to be measured shall include. • Physical Parameters – Colour, Odour, Taste, Turbidity, pH Value, Electrical Conductivity, Temperature • Chemical Parameters – Nitrate, Nitrite, Total Hardness, Fluoride, Chloride, Sulphate, Copper, Manganese, TDS, Total Iron, Arsenic • Biological Parameters – Faecal Coli form Counts	Ls	1		-
	Borehole Reports				-
2.13	Borehole drilling detail report 4 Copies- including coordinates of the location, lithological description, pumping test result, pump size recommendation, etc.; with progress photographs in soft and hard copies. Borehole Completion Data and Water Chemical Analysis Report	Ls	1		-
2.14	Carry out disinfection of well with chlorine solution. Add 10L of 1% chlorine solution per m3 of well water. Leave for atleast 12hr	Ls	1		-
2.15	Construct and install tight fitted steel well cover with suitable fittings	No	1		-
	Borehole drilling works carried to summary				-

	Footing/foundation/Metal works				
3.1	Site Clearing, excavation and preparation of foundation (Rates for excavation and backfilling in trench shall include for trimming trench bottom and for providinf selected bedding and surround materials from the excavations with the specifications	m	20		-
3.2	Excavate in ordinary soil for foundation footing	cu.m	9		-
3.3	Return fill around foundation	cu.m	9		-
3.4	Plain insitu concrete (1:10-40mm aggregate), blinding, vibrated not exceeding 200mm thick. (footings)	cu.m	1.2		-
	Vibrated Reinforced insitu concrete (1 2 4-16mm aggregate) filled into formwork and wall packed around reinforcement Ground beams, columns, beams and slabs				
	Plain sawn formwork to horizontal sides of beams, slabs and columns				-
3.5	Casting of 1000mm x 1000mm x 1200mm RC plinth using RC (Mix 1:2:4) including Y25 threaded with nuts and washers to take bolts with double basket using Y12 in the presence of an ForAfrika Engineer.	Nos	4		-
3.6	Supply and installation of 10mm thick steel base plate 500mm x 500mm with hole to receive vertical pillars	Nos	4		-
3.7	Casting of 300mm x 500mm x 2800mm tie RC ground Beam using RC (Mix 1:2:4) including reinforcements and shuttering using Y12 with Y10 stirrups in the presence of an ForAfrika Engineer	Nos	4		-
3.8	Supply and installation of 8" x 4" x 6m High H-beam(vertical column) 12mm thickness mild steel welded to 50cm x 50cm x 20mm base plate with hole to collect bolts, painted with red oxide and finally with double quote aluminium paint	Nos	4		-
3.9	Supply and installation 8" x 4" x 5.5m high H-beam (Primary beam), mild steel	Nos	2		-
3.10	Supply and installation of 5" x 3" x 5.2m H beam (Secondary Beams),mild steel	Nos	12		-
3.11	Supply and installation of 4" x 2" x 2.8m U-channel (horizontal support brazing externally and internally), mild steel	Nos	14		-
3.12	Supply and installation of 76 x 76x 5mm thick (3" x 3") angle x 6mm thick (Full length) Iron for Cross internal support to vertical beams (at intervals of 3m each) with hole to collect bolts and nuts and braces with angle iron by welding and screwed to the stanchion **(Internally and externally)**	Nos	20		-
3.13	Supply and installation of thick grating sheets (with opening to drain any waste water) to cover 5.5 x 5.2m to catwalk area welded to top rafter to receive overhead tank including 2x2 angle iron brazing in-between sheet length	sheet	4		-
3.14	Supply and installation of 76 x 76 x 5mm (3"x3"x5mm) thick angle iron Handrail to catwalk area. And other internal bracing	length	10		-
3.15	Supply and installation of 6 meters ladder using 50x50x 5mm thick (2"x2") angle iron with thread at 300mm intervals covered with circular steel back rest protection to start at 3m high. Provide adquate fitted landing with hand rails at 6m (mid section)	Ls	1		-
3.16	Supply and application of Anti rust red oxide coating to completed water tower.	Coat	1		-
3.17	Supply and application silver glossy oil paint coating to completed water tower.	Coat	1		-
	10,000 liters tank supply and installation				-
3.18	Supply and install water storage tank of $10m^3$ (2500 uPVC tank liters each) capacity including accessories and connection fittings, incoluding washing and disinfection (Item 2.8) of tanks and plumbing fittings and fixtures	No	4		-
	Construction and Installation of a 10,000 liters on a 6m high tower Steel tank Carried to Summary				-
	BILL NO 4: PUMP INSTALLATIONS				
4.1	Supply and installation solar pump minimum 1.5HP (1.1KW), Maximum power rating 300v, pump minimum 150m up to 2000m, minimum output 2m3/hr, copper cable, wellhead, safety rope and other accessoriesof (Grundfos SQ Flex pump - SQ Flex 2.5-2)	No	1		-
4.2	Supply and installation of Grundfos CU 200 control box complete including cables, connections and accessories to pump and to float switch . (Converting DC to AC) - install earthen from switch to earthen rod	No	1		-
4.3	Supply and install circuit breaker 3 phase socket for dual use, connect generator cable with socket, change over on 1mm metal plate board with plank to receive generator connection - 3ft x 2ft	Nr	1		-
4.4	Supply and installation of metallic control switch protector to protect switch against sun, rain and weather (50x30x20cm box) with padlock	Nr	1		-
4.5	Supply and installation of automatic Water level switch to water tank with cables and connections	Nr	1		-
4.6	Supply and installation of 1 x 1/4" HDPE riser mains from pump to well head including connecting accessory (roll of 100m)	Roll	1		-
4.7	Supply and installation of 1 x 1/4" uPVC water supply pipes from well head to over head tanks installing non-return valves	m	20		-
4.8	Supply and installation of 2" uPVC pipe distribution pipes with non return valves to be installed from overhead tanks to distrubuton points, reduce to 1 x 1/4" or 1 x 1/2" or 1" uPVC according to Enginners specifications.	m	400		-
4.9	Construction of manhole to wellhead complete with RC slab cover to protect the well head including rendering and finishing including **Solar light to be installed on around the OHT area.**	Nr	1		-
	Pump Installations Carried to Summary				-

	BILL NO. 5 SOLAR POWER				
5.1	Supply and installation of sunshine solar panels 500 watts, 38-42V including connections and cables to control unit and should be installed to power the borehole. Sun intensity, wind speeds and orientation should be main considerations to optimize use.	Nr	6		-
5.2	Supply and installation of 4x3" H-column metal frame double basket rack (top and bottom of panels) to hold solar panels above or below that water tanks (bottom of metal frame to top of tank should be atleast 0.7m). Fix rack with 4x3" H columns with brazings to secondary beams - see design)	Nr	1		-
5.3	Supply and installation of thunder arrestor over the solar panel using pure copper tape, earth rod and cupper basket	Nr	1		-
	Solar Power Carried to Summary				-
	BILL NO. 6 WATER DISTRIBUTION NETWORK				
	Supply and install the following pipes and accessories, depth no less than 0.4m, for transmitting water from borehole to storage tank and distribution to fetching points, group hand washing station.				
6.1	Supply and installation of 1" uPVC mains for distribution taps to connect handwashing station	Ls	1		-
6.2	Construct a 5mx5mx1m tap stand and install 5 heavy duty pressure release 3/4" taps on concrete(1:2:4) platform in a space provided in the community including soak pit covered with concrete slab.	No	4		-
	Pipe Water distribution network Carried to Summary				-
	BILL NO. 7 FENCING AND VISIBILITY				
7.1	Allow for provision of branding and visibility of the water facility, including preparing surface with 2 coats of paints, engraving of words and logos as shown on the branding template (1 mounted on ground, 4 mounted on the handria at the four four sides)	No	2		-
7.2	Procure and Install BRC mesh wire coated fence with gate which is 6x6m perimeter on 3" galvanized steel post silver color painted, using two course 6" block and buried 150mm depth to hold the concrete. Including pedestrain gate (1m wide) around the tower stand the area to be cover with concrete including drainage and razor spiral wire installed at the top. GI pipes will carry two sides welded 2" angle iron to allow fitting of mesh - refer the attached design	Ls	1		-
	Fencing and visibility Carried to Summary				-
	BILL NO. 8 FINISHES				
8.1	Borehole detail report 4 copies - including coordinates of the location, pumping test result, pump size recommendation, distribution pipe network profile surveys, etc.; with progress photographs in soft and hard copies. Borehole Completion Data and Water Chemical Analysis Report - print 4 hard copies and soft copy	Ls	1		-
	Bill No 8 Carried to Summary				-
	SUMMARY LIST				
Item No.	Description			Amount (UGX)	
Bill 1	Preliminaries				-
Bill 2	Borehole drilling works				-
Bill 3	Construction and Installation of a 10,000 liters on a 6m high tower Steel tank				-
Bill 4	Pump Installations				-
Bill 5	Solar Power				-
Bill 6	Pipe Water distribution network				-
Bill 7	Fencing and visibility				-
Bill 8	Finishes				-
	GRAND TOTAL				

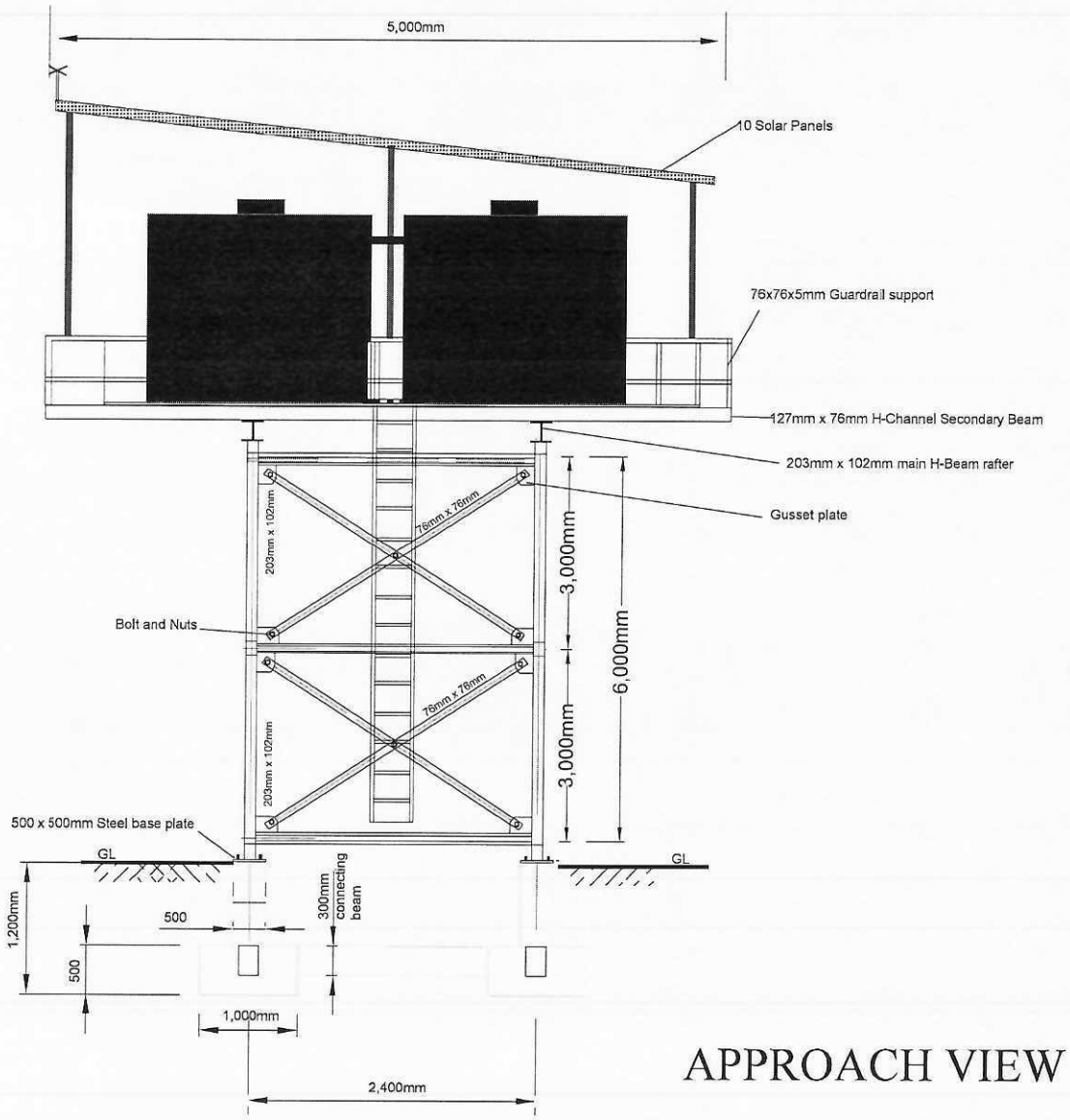
PROJECT : **CONSTRUCTION OF 10,000 LITERS OHT AND FETCHING POINTS**

LOCATION : **SOUTH SUDAN**

CLIENT : ForAfrika

WORKING DRAWINGS

MARCH, 2025



APPROACH VIEW

NOTE

GENERAL NOTES:

1. All dimensions are in millimeters (mm)
2. Concrete mix ratio 1:2:4
3. Foundation rebars: 12mm main reinforcement bars
4. Stirrup: 10mm
5. Vertical stanchion H-channel: 203mmx102mm
6. Horizontal H-beam support: 127mmx76mm
7. Main H-beam rafter sitting on vertical stanchion: 203mmx102mm
8. Top H-channel base grating sheet carrying tanks

REVISION

Date	Comments	Sign

PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS OHT AND PITCHING POINTS

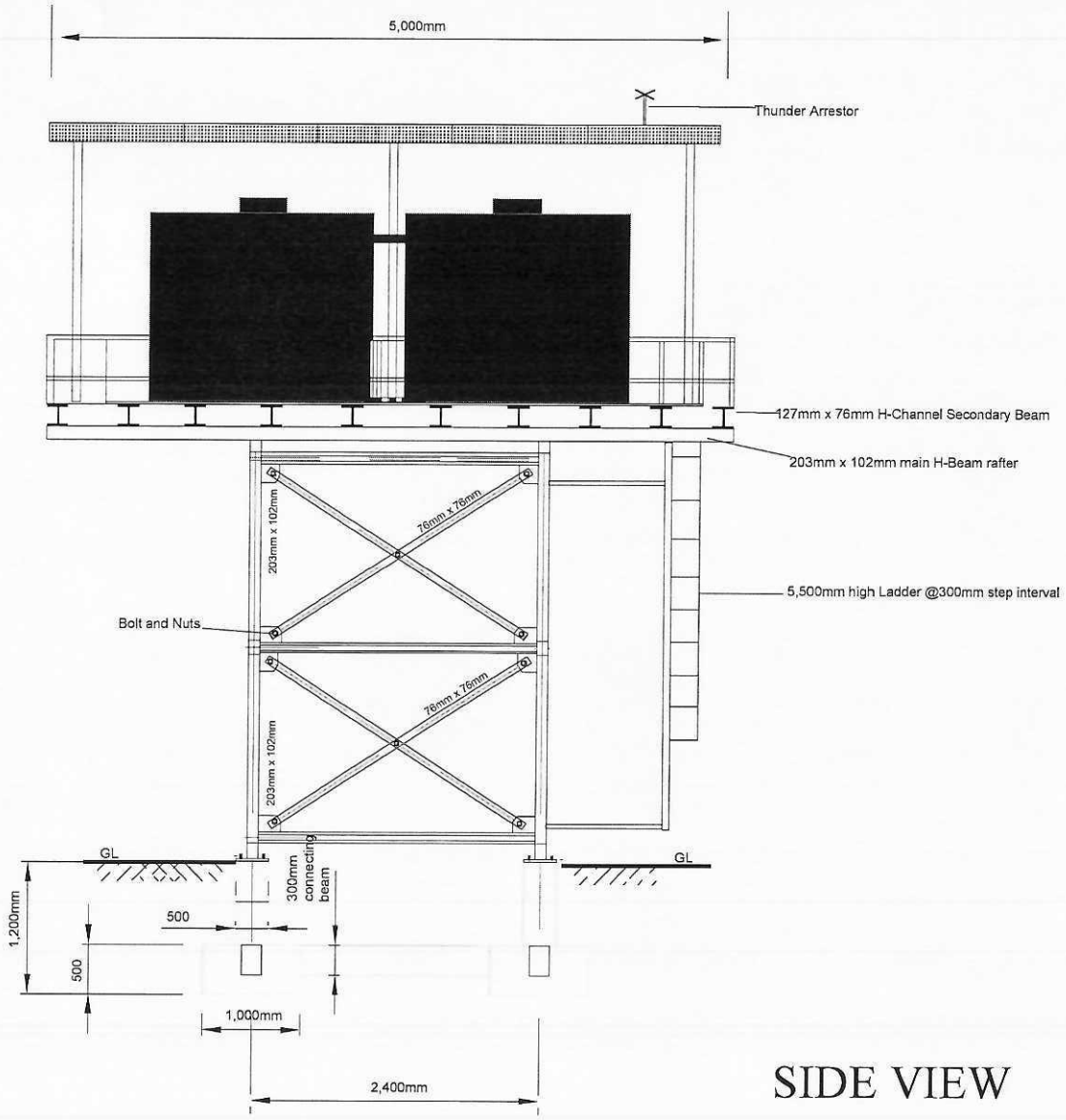
ADDRESS:
SOUTH SUDAN

DRAWING TITLE
APPROACH VIEW

CLIENT:

ForAfrika

Designed By	ForAfrika Infrastructure Team
Drawn By	ForAfrika Infrastructure Team
Checked By	ForAfrika Infrastructure Team
Scale	N.T.S.
Date	MARCH, 2025
SHEET NO	



SIDE VIEW

NOTE

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8. Top H-channel base grating sheet carrying tanks

REVISION

Date	Comments	Sign

PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS ONE AND FETCHING POINTS

ADDRESS:
SOUTH SUDAN

DRAWING TITLE
SIDE VIEW

CLIENT:

ForAfrika

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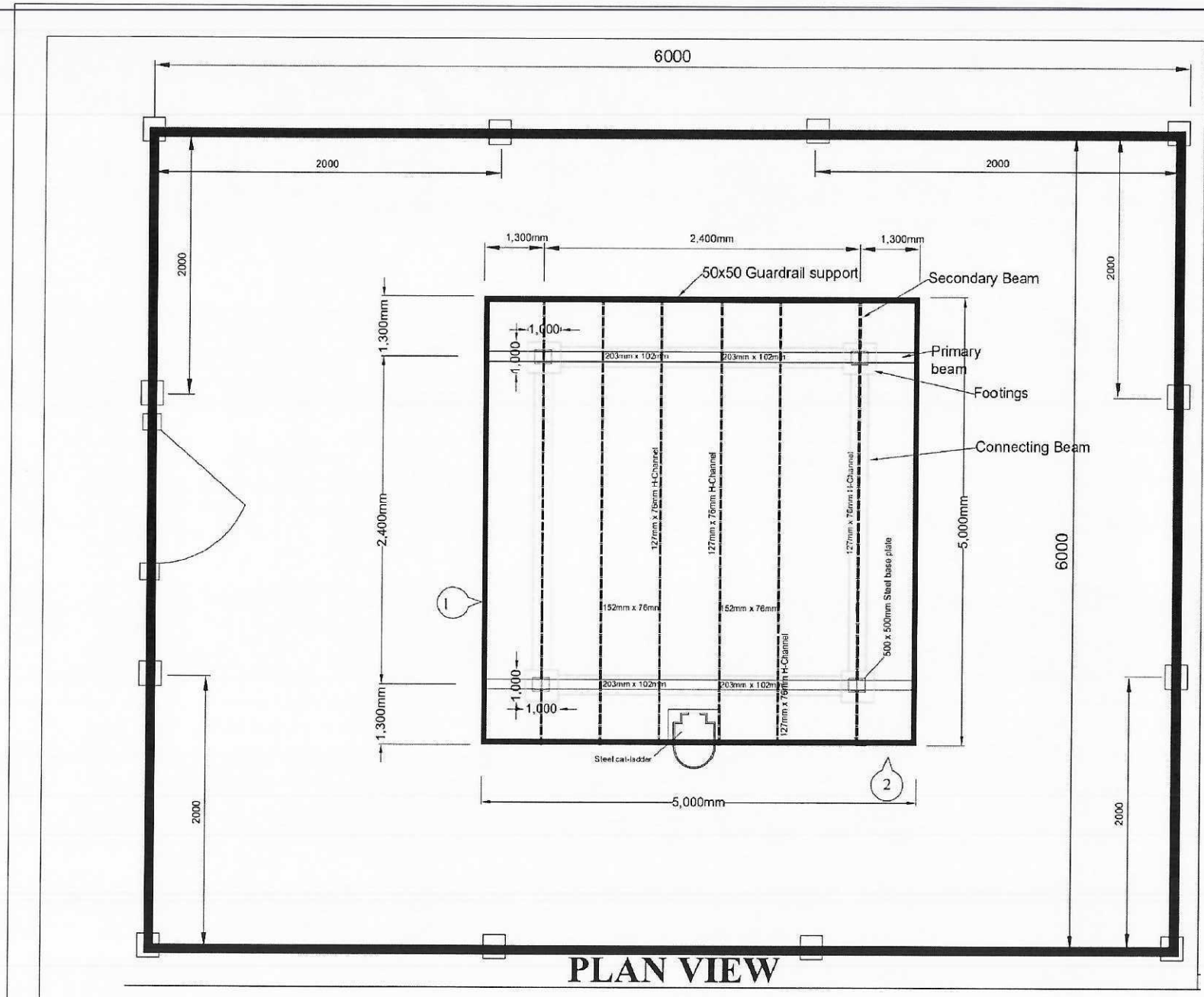

PLAN VIEW

NOTE

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8. Top H-channel base grating sheet carrying tanks

REVISION

Date	Comments	Sign

PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS TANK AND WATERING POINTS

ADDRESS:
SOUTH SUDAN

DRAWING TITLE
PLAN VIEW

CLIENT:

ForAfrika

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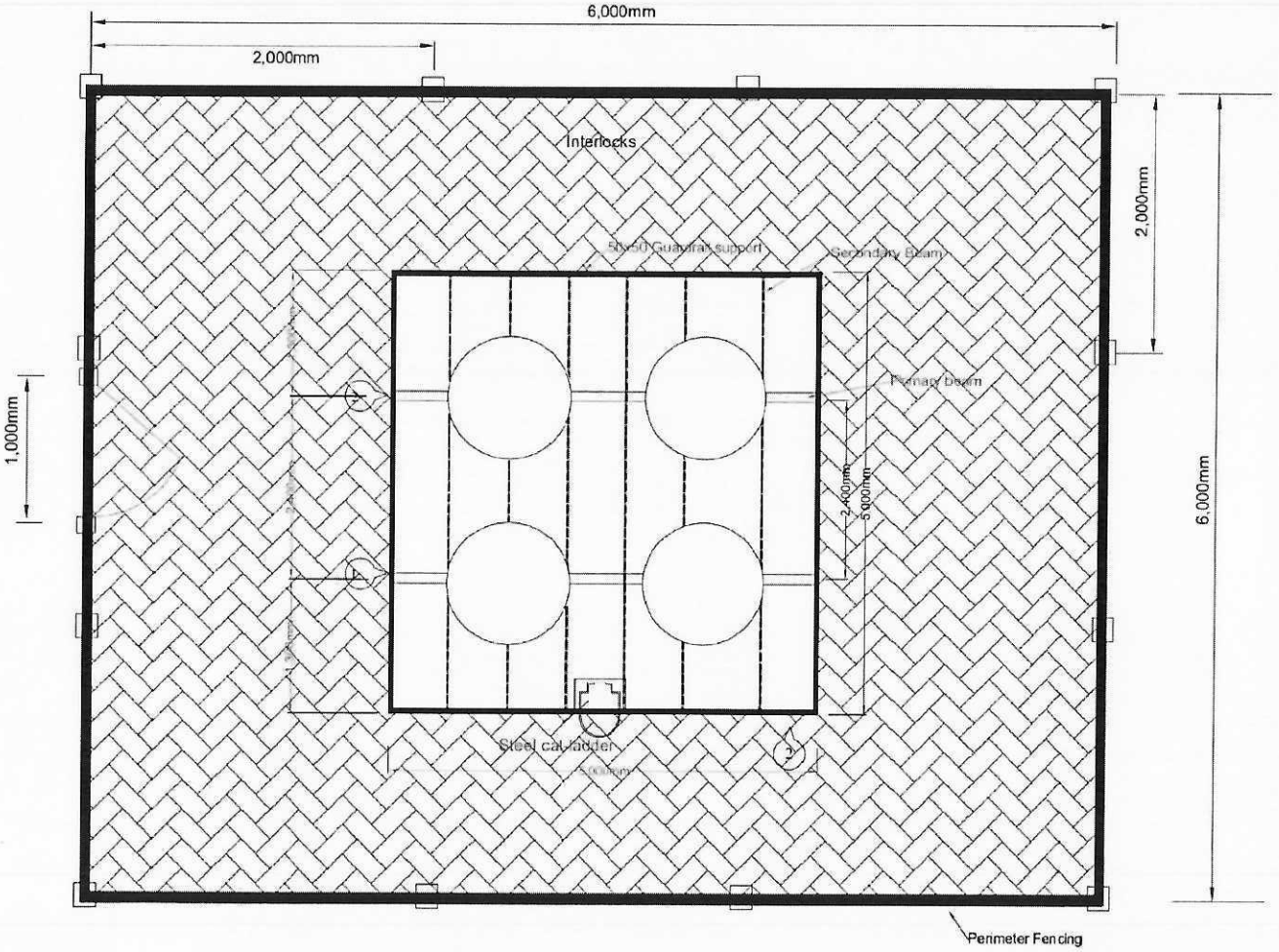

TOP VIEW

NOTE

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8. Top H-channel base grating sheet carrying tanks

REVISION

Date	Comments	Sign

PROJECT TITLE:
CONSTRUCTION OF 1,000,000 LITERS WET AND FETCHING POINTS

ADDRESS:
SOUTH SUDAN

DRAWING TITLE
TOP VIEW

CLIENT:

ForAfrika

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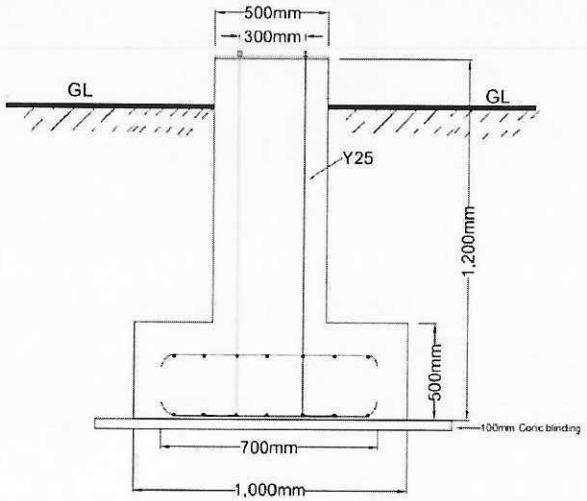
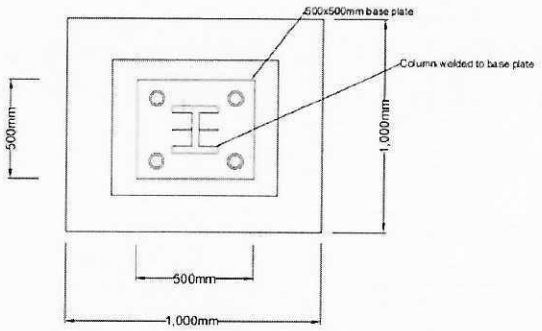
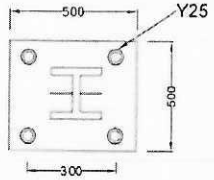
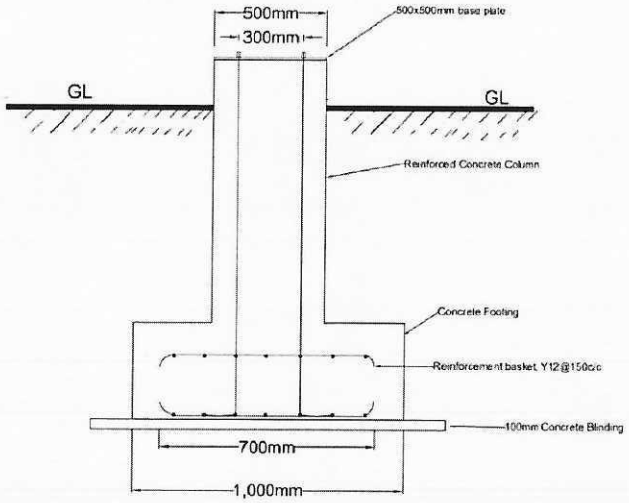
Date	MARCH, 2025
SHEET NO	









FOOTING DETAILS

NOTE

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REVISION

Date	Comments	Sign

PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS OHT AND ESTIMATE POINTS

ADDRESS:
SOUTH SUDAN

DRAWING TITLE
FOOTING DETAILS

CLIENT:

ForAfrika

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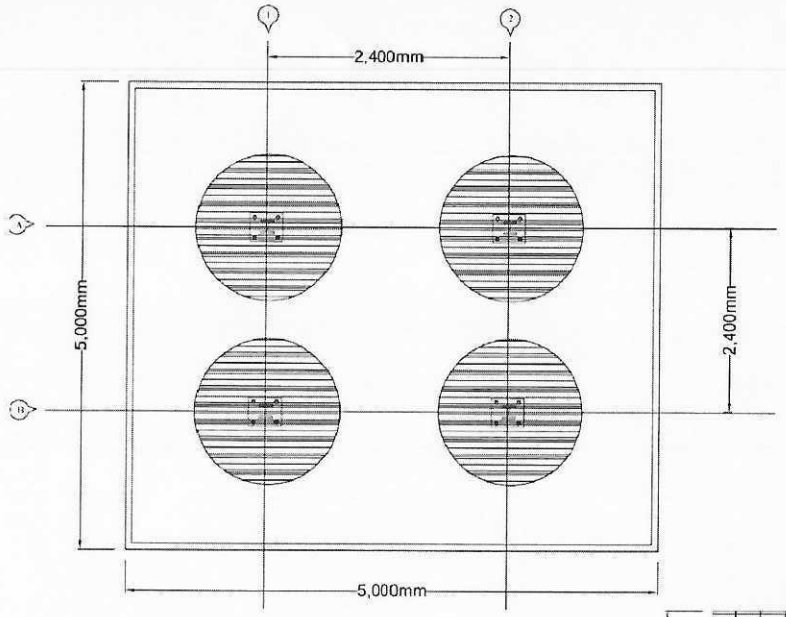

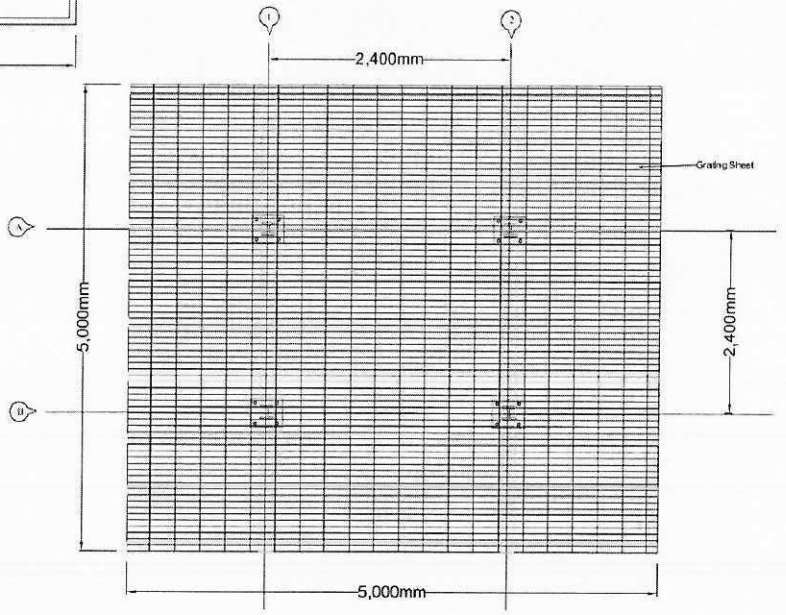

TOP VIEW

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REVISION

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PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS OHT AND FETCHING POINTS

ADDRESS:
SOUTH SUDAN

DRAWING TITLE
TOP VIEW DETAILS

CLIENT:

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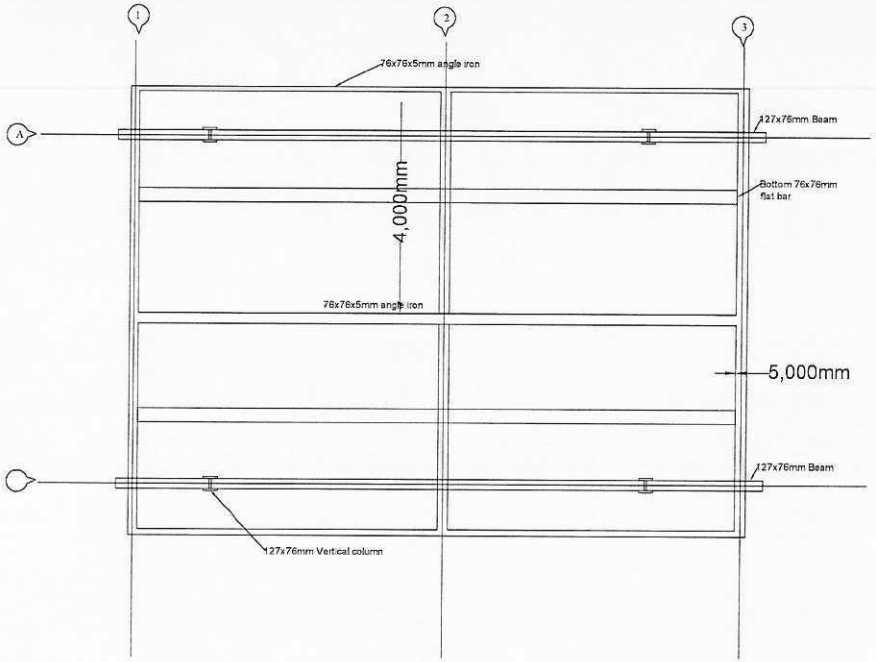

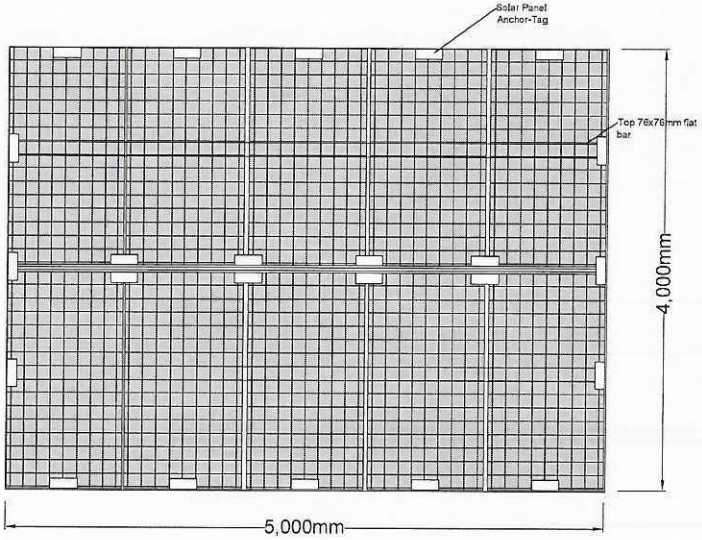

SOLAR PANEL AND RACK

NOTE

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REVISION

Date	Comments	Sign

PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS UNIT AND SECONDARY POINTS

ADDRESS:
SOUTH SUDAN

DRAWING TITLE
SOLAR PANEL AND RACK DETAILS

CLIENT:

ForAfrika

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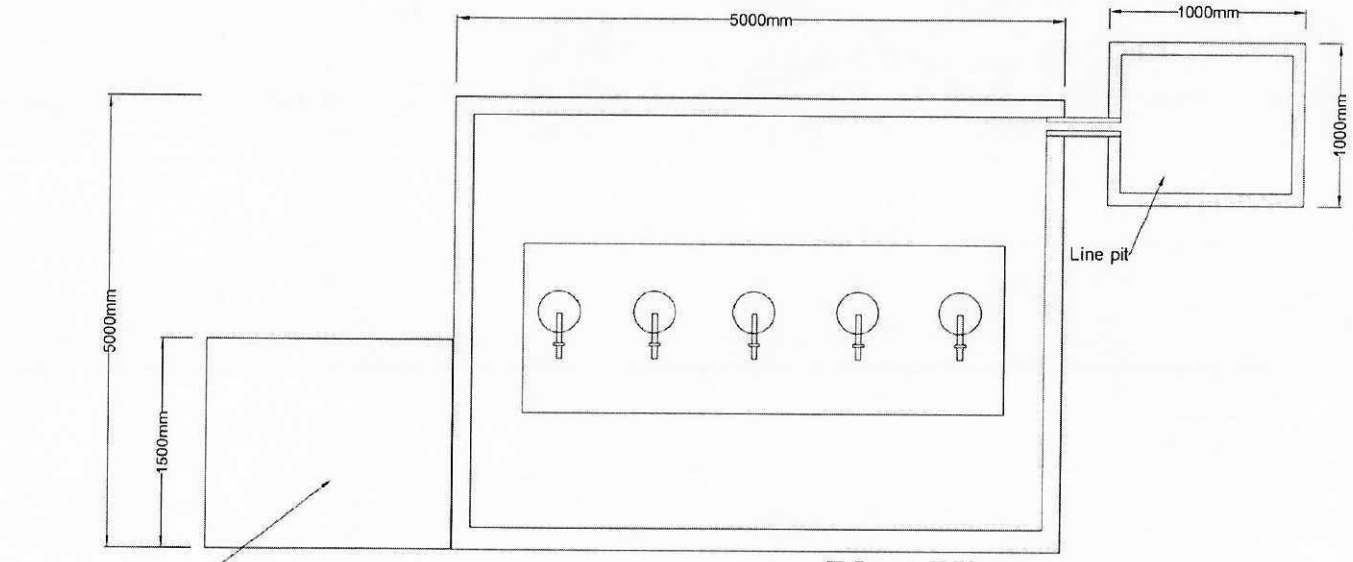
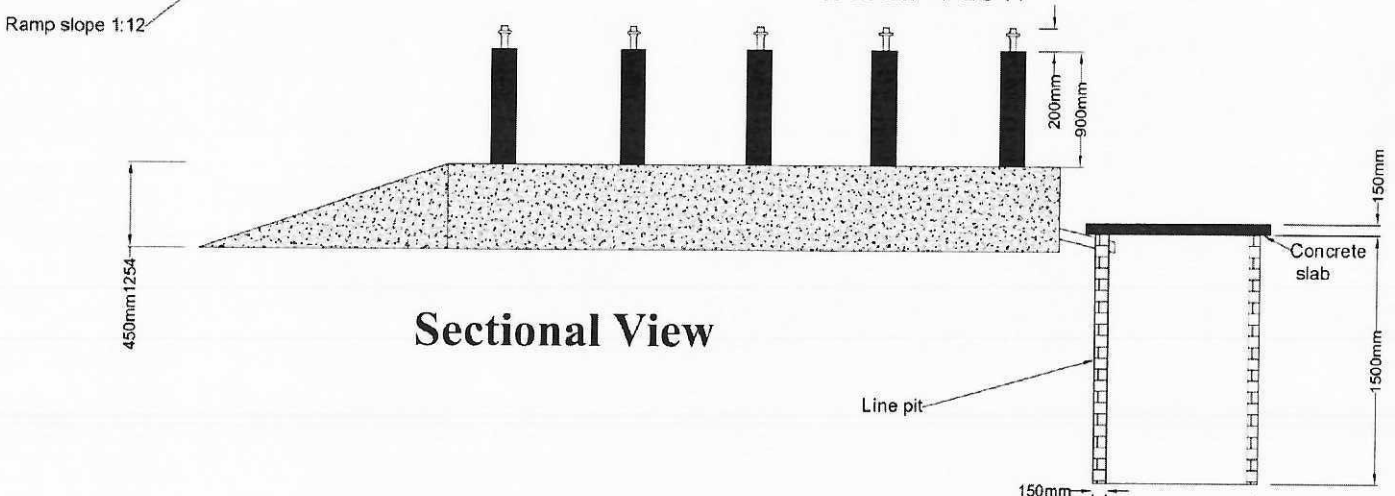


Plan View



Sectional View

FETCHING POINT VIEWS

NOTE

GENERAL NOTES:

1. All dimensions are in millimeters (mm)
2. Concrete mix ratio 1:2:4
3. Foundation rebars: 12mm main reinforcement bars
4. Stirrup: 10mm
5. Vertical stanchion H-channel: 203mmx102mm
6. Horizontal H-beam support: 127mmx76mm
7. Main H-beam rafter sitting on vertical stanchion: 203mmx102mm
8. Top H-channel base grating sheet carrying tanks

REVISION

Date	Comments	Sign

PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS UNIT AND FETCHING POINTS

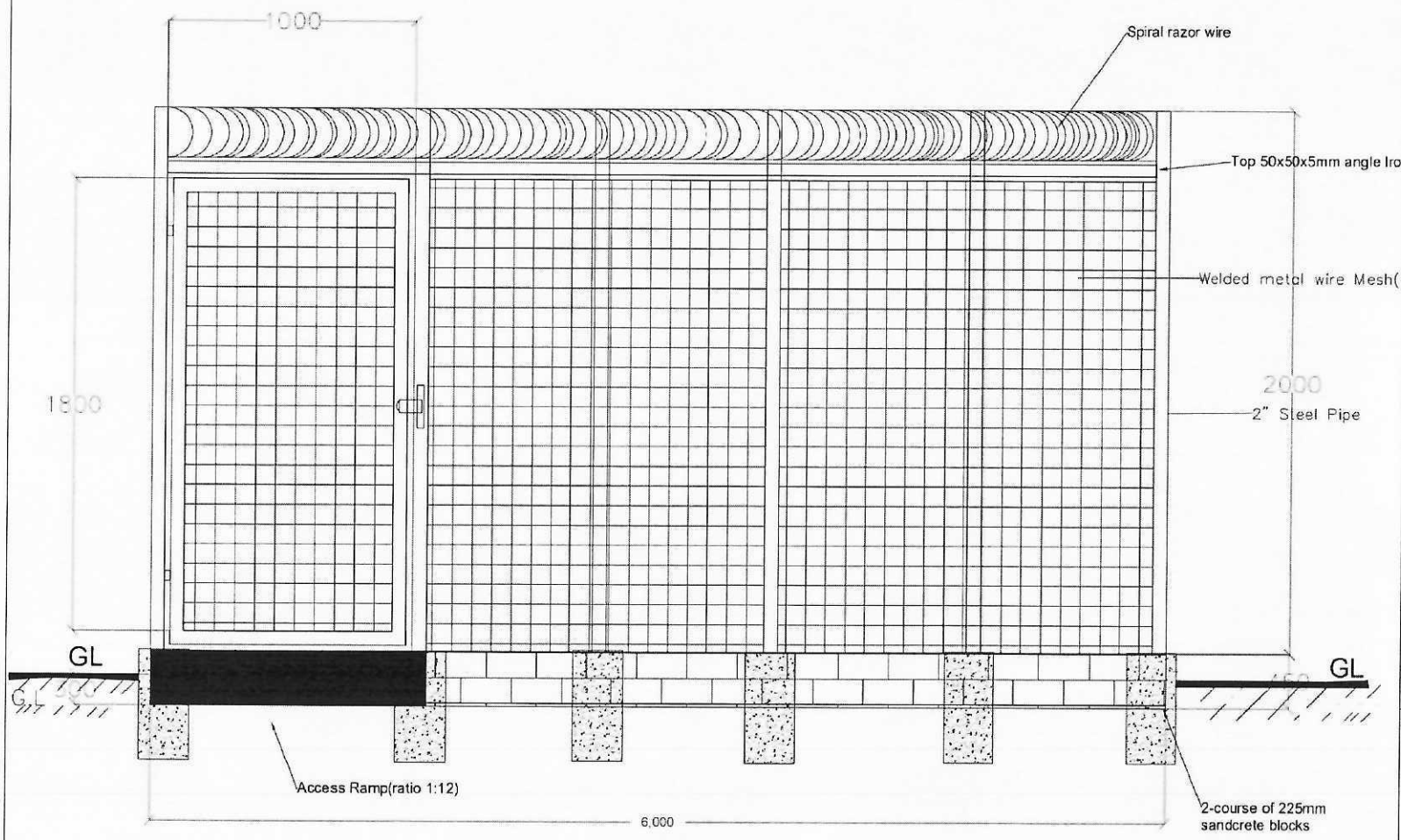
ADDRESS:
SOUTH SUDAN

DRAWING TITLE
FETCHING POINT DETAILS

CLIENT:

ForAfrika

Designed By	ForAfrika Infrastructure Team
Drawn By	ForAfrika Infrastructure Team
Checked By	ForAfrika Infrastructure Team
Scale	N.T.S.
Date	MARCH, 2025
SHEET NO	



Wire mesh fence approach view

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REVISION

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PROJECT TITLE:
CONSTRUCTION OF 10,000 LITERS OHT AND FETCHING POINTS

ADDRESS:
SOUTH SUDAN

DRAWING TITLE
FENCE DETAILS

CLIENT:

ForAfrika

Designed By	ForAfrika Infrastructure Team
Drawn By	ForAfrika Infrastructure Team
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