



**Republic of Uganda**

**Ministry of Water and Environment**

**Electricity Access Scale-Up Project (EASP)**

**Project ID: P166685**

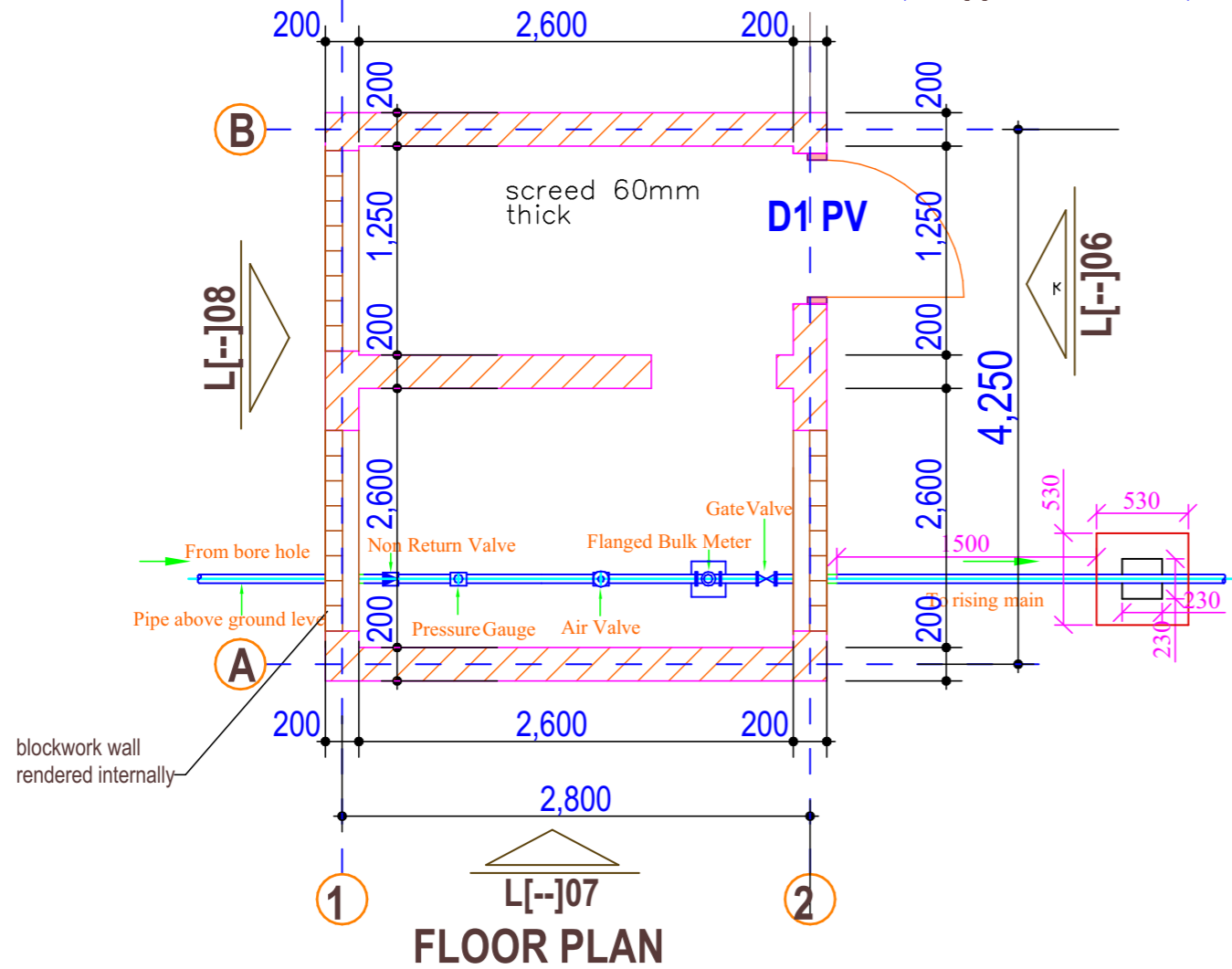
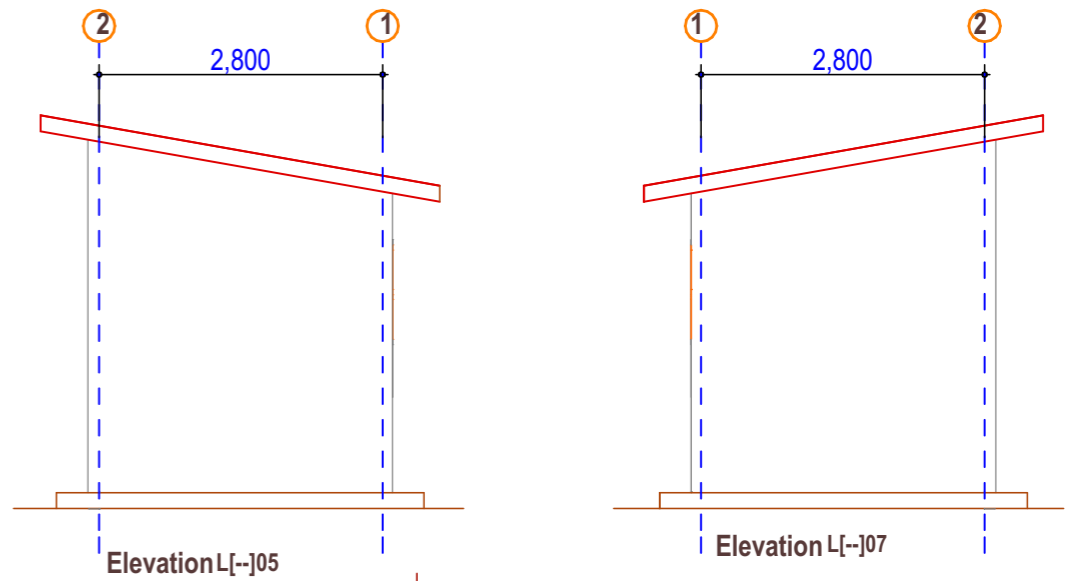
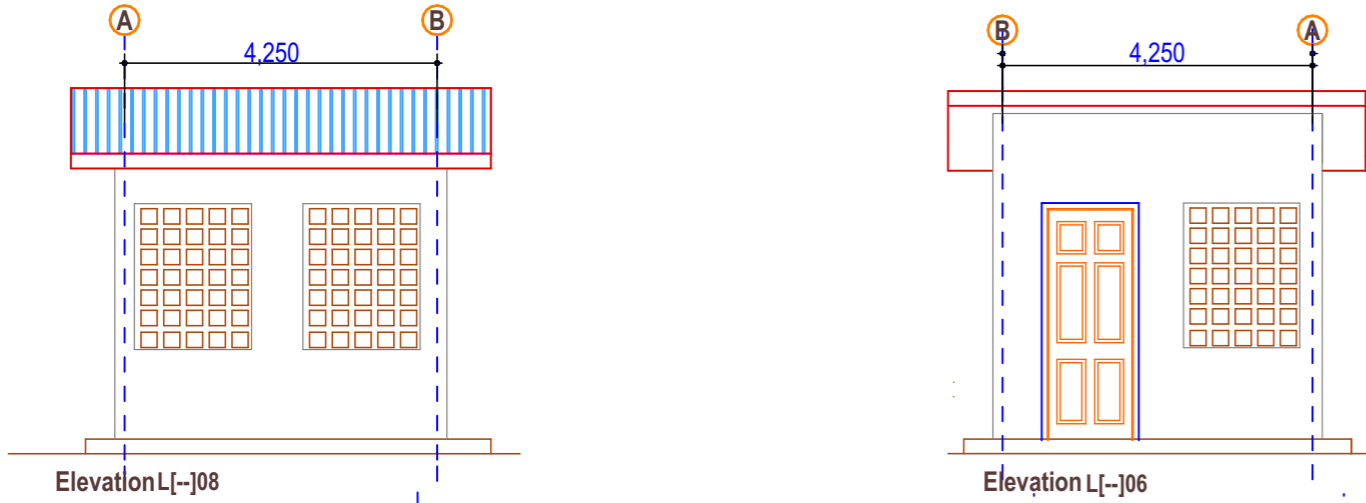
**Supply, Installation and Commissioning of 40 Solar Photovoltaic (PV) Energy Packages for Water Supply Schemes**

**Procurement Reference No: MWE/SUPLS/23-24/00007/1/2/3/4**

**VOLUME 3 – DRAWINGS**

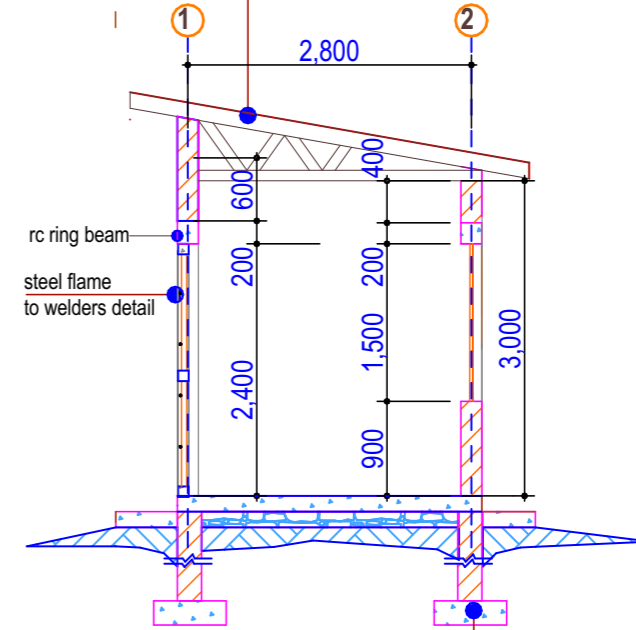
**Date of Issue: November 2023**

# PUMP HOUSE DETAILS



## ROOF CONSTRUCTION

10 deg. pitch gauge 28 corrugated sheets on 100X50 purlins on, 100x50 rafters on, 100x50 ties and struts on, 150x50 tie beam on, 100x75 well treated wall plate.



## SECTION L[SB]04

## FOUNDATION NOTES

150mm thick oversite concrete slab(1:3:6) on 1,000 gauge Polythene DPM on 50mm Sand blinding on 150mm well compacted hard core, on well prepared ground. Foundation depth to be determined on site

**CLIENT:**



REPUBLIC OF UGANDA  
MINISTRY OF WATER AND ENVIRONMENT

**CONTRACT NAME:**  
SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR PHOTOVOLTAIC (PV) ENERGY PACKAGES FOR WATER FACILITIES

**PROJECT NAME:**  
ELECTRICITY ACCESS SCALE-UP PROJECT (EASP)

**CONSULTANT:**

**DESIGNED:** \_\_\_\_\_ **CHECKED ARCH. DESIGN:** \_\_\_\_\_  
**DRAWN:** \_\_\_\_\_ **CHECKED TECHNICAL:** \_\_\_\_\_  
**SCALE:** AS SHOWN ON DWGS **DATE:** \_\_\_\_\_  
**CERTIFIED:** \_\_\_\_\_ **STAGE:** \_\_\_\_\_

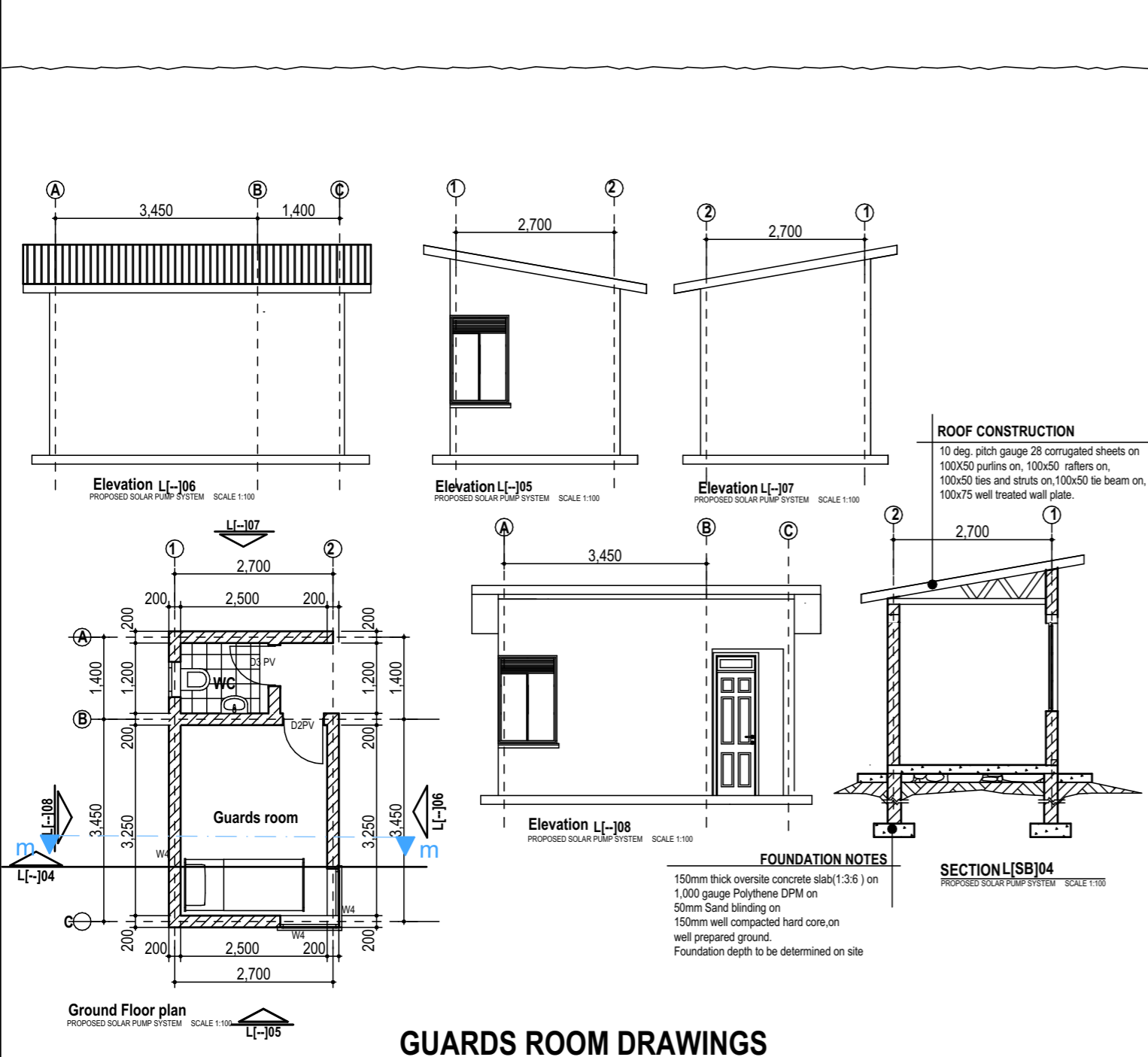
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PUMP HOUSE

**DRAWING No.:** \_\_\_\_\_

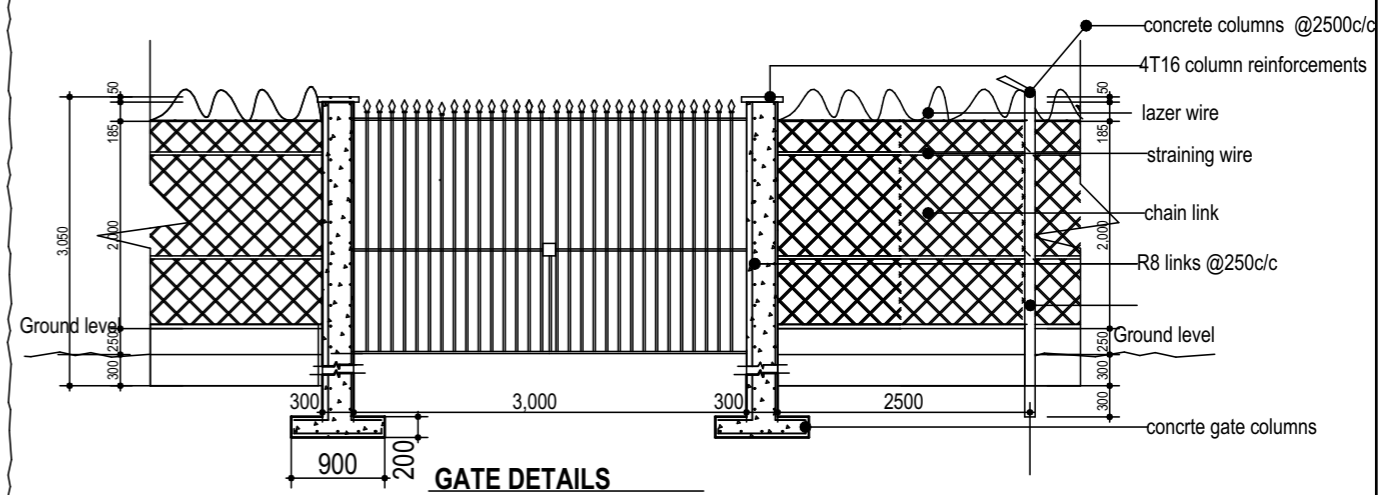
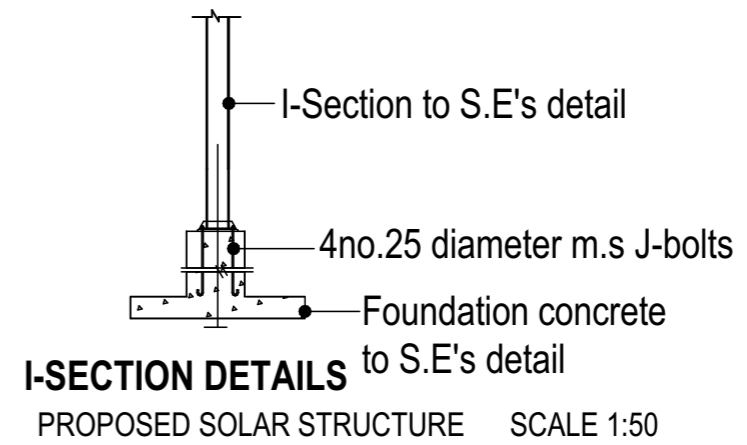
**REVISION NOTES**

NO.	Date	Particulars	Initials

# GUARD HOUE AND GATE DRAWINGS



## GUARDS ROOM DRAWINGS



CONTRACT NAME:

CONSULTANT:

REVISION NOTES

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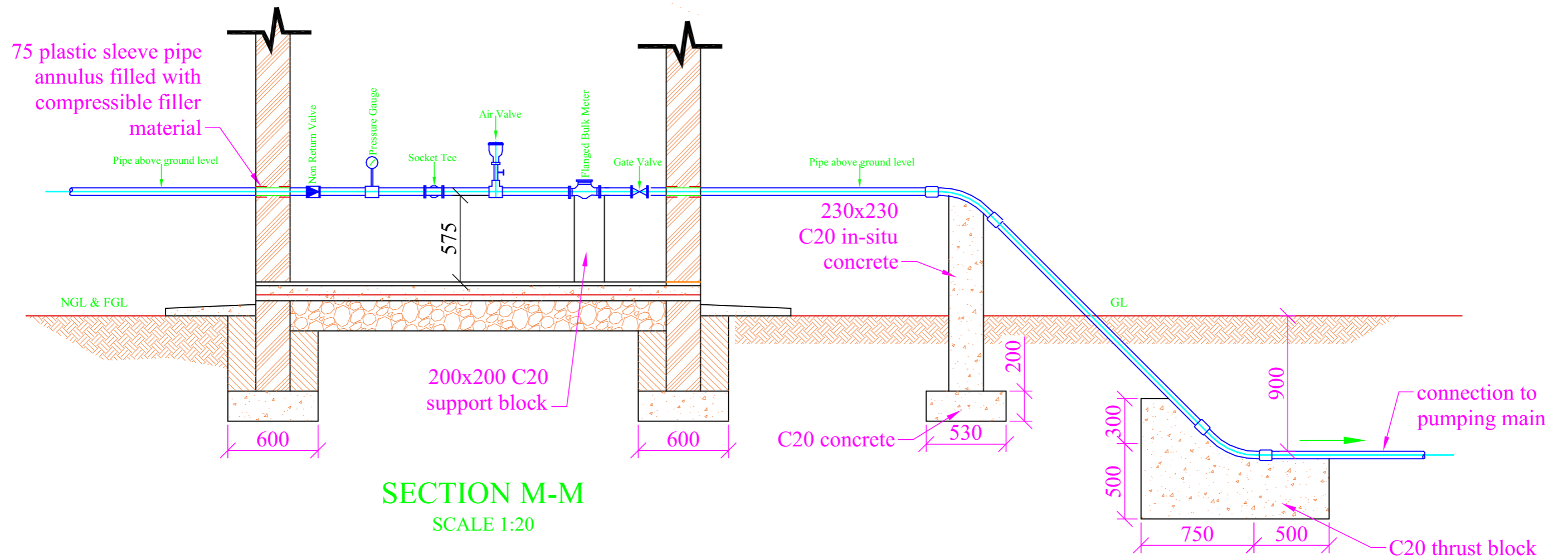
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Stage: \_\_\_\_\_

**DRAWING TITLE :**  
GUARD HOUSE

**Drawing No.:** \_\_\_\_\_

NO.	Date	Particulars	Initials

# PUMP HOUSE PIPE DETAILS



**SECTION M-M**  
SCALE 1:20

<p><b>CLIENT:</b></p> <p style="text-align: center;">REPUBLIC OF UGANDA MINISTRY OF WATER AND ENVIRONMENT</p>	<p><b>CONTRACT NAME:</b></p> <p>SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR PHOTOVOLTAIC (PV) ENERGY PACKAGES FOR WATER FACILITIES</p> <p><b>PROJECT NAME:</b></p> <p>ELECTRICITY ACCESS SCALE-UP PROJECT (EASP)</p>	<p><b>CONSULTANT:</b></p>	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Designed:</td> <td>Checked Arch. Design:</td> </tr> <tr> <td>Drawn:</td> <td>Checked Technical:</td> </tr> <tr> <td>Scale: AS SHOWN ON DWGS</td> <td>Date:</td> </tr> <tr> <td>Certified:</td> <td>Stage:</td> </tr> </table> <p><b>DRAWING TITLE:</b></p> <p><b>Drawing No.:</b></p>	Designed:	Checked Arch. Design:	Drawn:	Checked Technical:	Scale: AS SHOWN ON DWGS	Date:	Certified:	Stage:	<p><b>REVISION NOTES</b></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 5%;">NO.</th> <th style="width: 10%;">Date</th> <th style="width: 75%;">Particulars</th> <th style="width: 10%;">Initials</th> </tr> </thead> <tbody> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> <tr><td> </td><td> </td><td> </td><td> </td></tr> </tbody> </table>	NO.	Date	Particulars	Initials																
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# SEPTIC TANK DETAILS

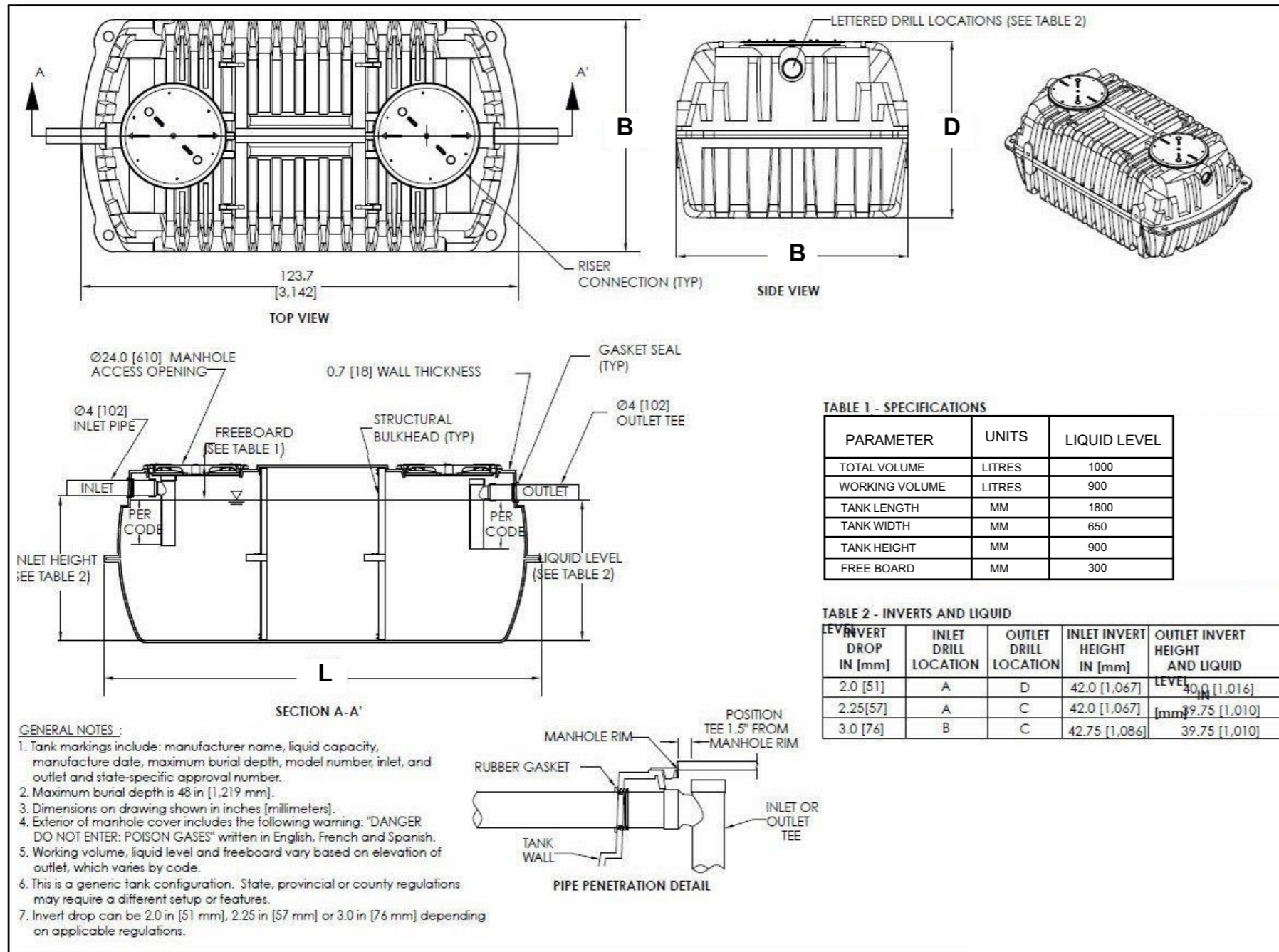


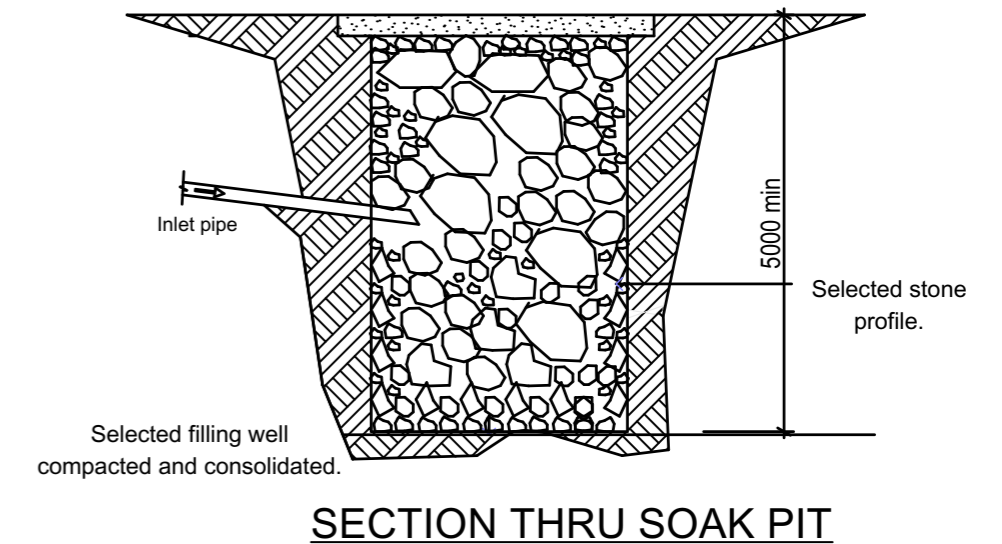
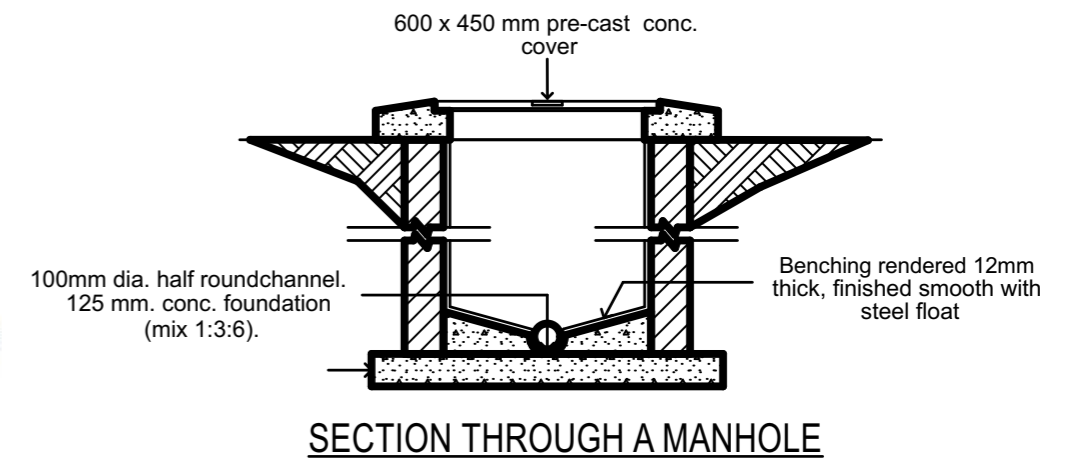
TABLE 1 - SPECIFICATIONS

PARAMETER	UNITS	LIQUID LEVEL
TOTAL VOLUME	LITRES	1000
WORKING VOLUME	LITRES	900
TANK LENGTH	MM	1800
TANK WIDTH	MM	650
TANK HEIGHT	MM	900
FREE BOARD	MM	300

TABLE 2 - INVERTS AND LIQUID

INVERT DROP IN [mm]	INLET DRILL LOCATION	OUTLET DRILL LOCATION	INLET INVERT HEIGHT IN [mm]	OUTLET INVERT HEIGHT AND LIQUID LEVEL [mm]
2.0 [51]	A	D	42.0 [1,067]	39.75 [1,010]
2.25 [57]	A	C	42.0 [1,067]	39.75 [1,010]
3.0 [76]	B	C	42.75 [1,086]	39.75 [1,010]

No. OF USERS	L	B	D	CAPACITY IN LITRES	PERCOLATION TRENCHES
6	1800	675	900	1112.5	7.5m
10	2250	675	900	1417.5	12.2m
15	2500	675	900	1561.5	14.4m
20	2800	675	900	1800.0	18.3m



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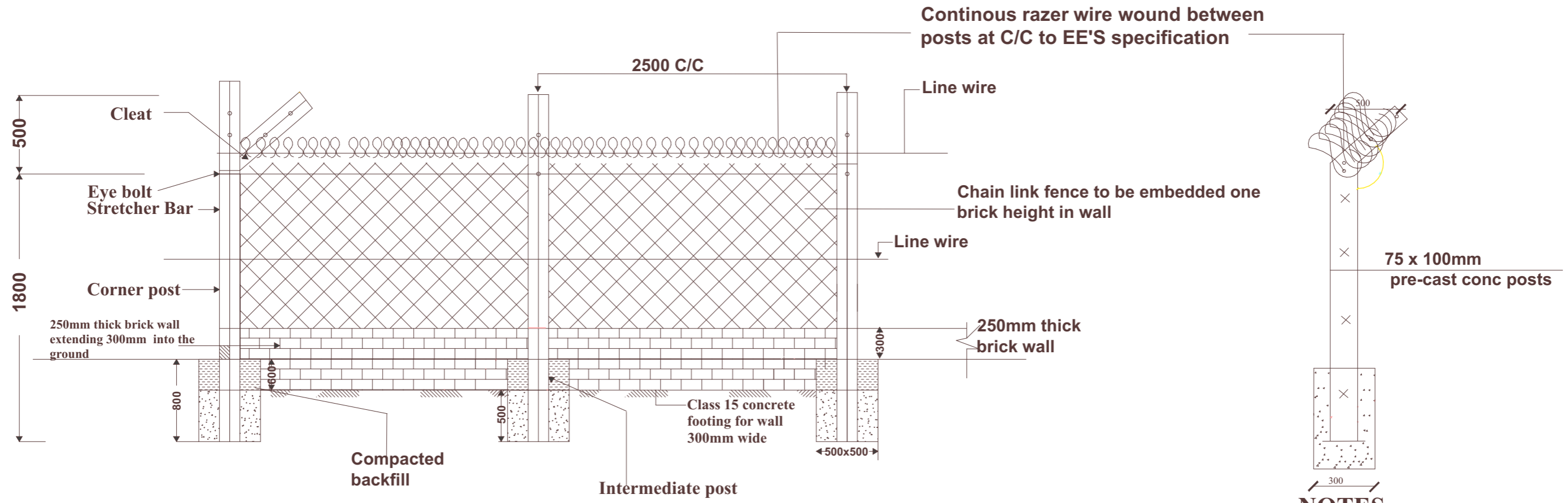
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# FENCE DETAILS



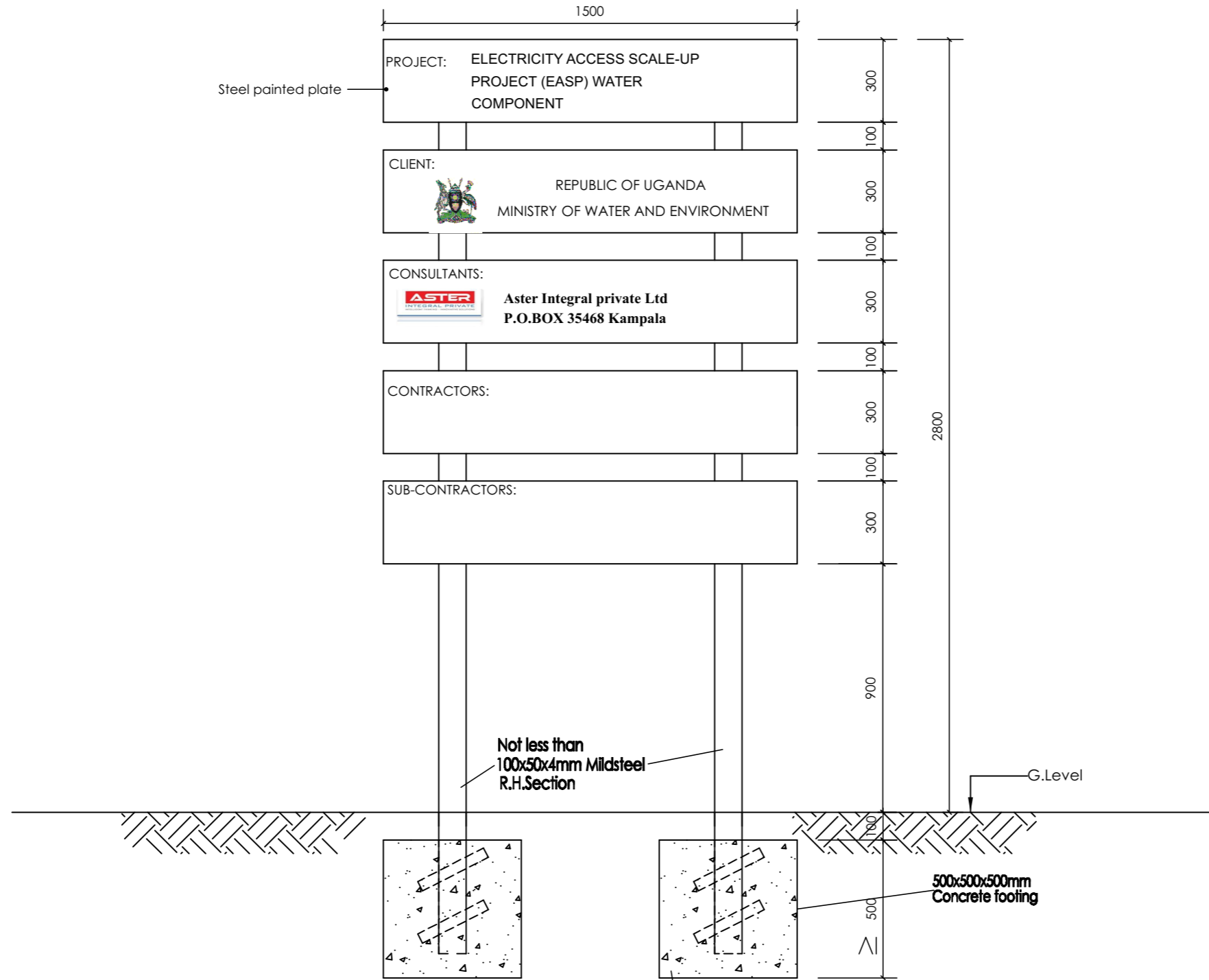
## CHAIN LINK WITH RAZOR WIRE FENCING POST

### NOTES

All dimensions in mm

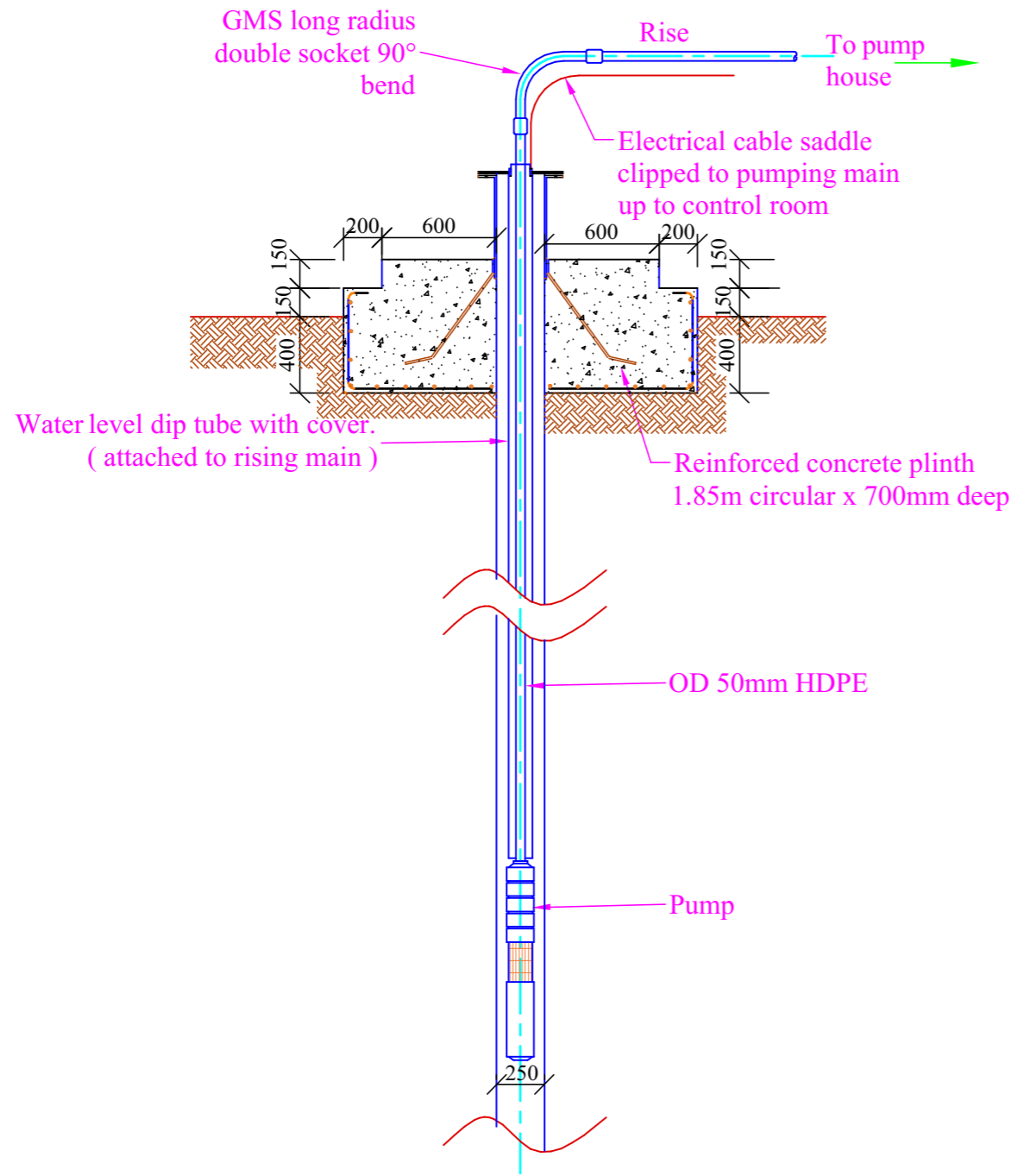
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# SIGN POST

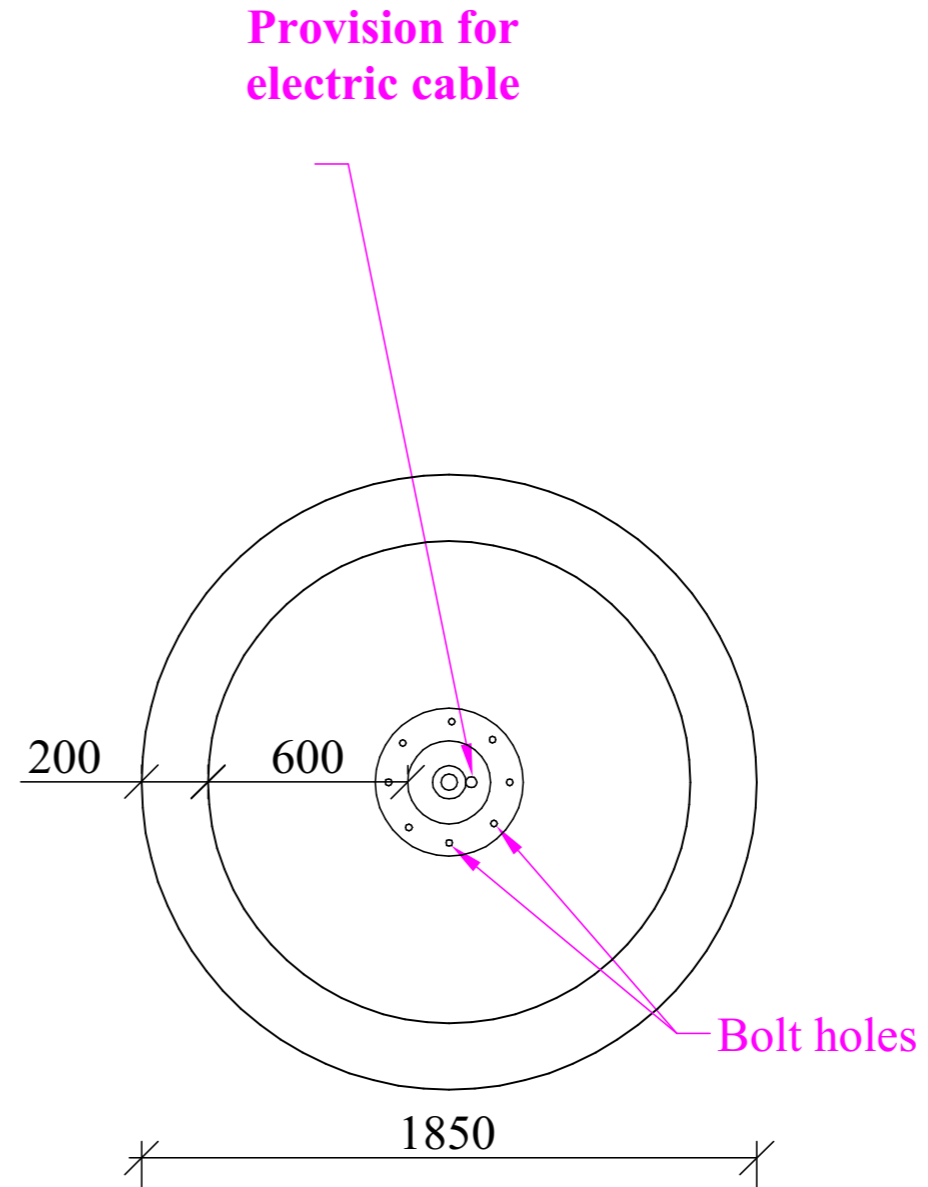


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# BORE HOLE DETAILS



**BORE HOLE**  
SCALE 1:30



**BORE HOLE PLAN**  
SCALE 1:10

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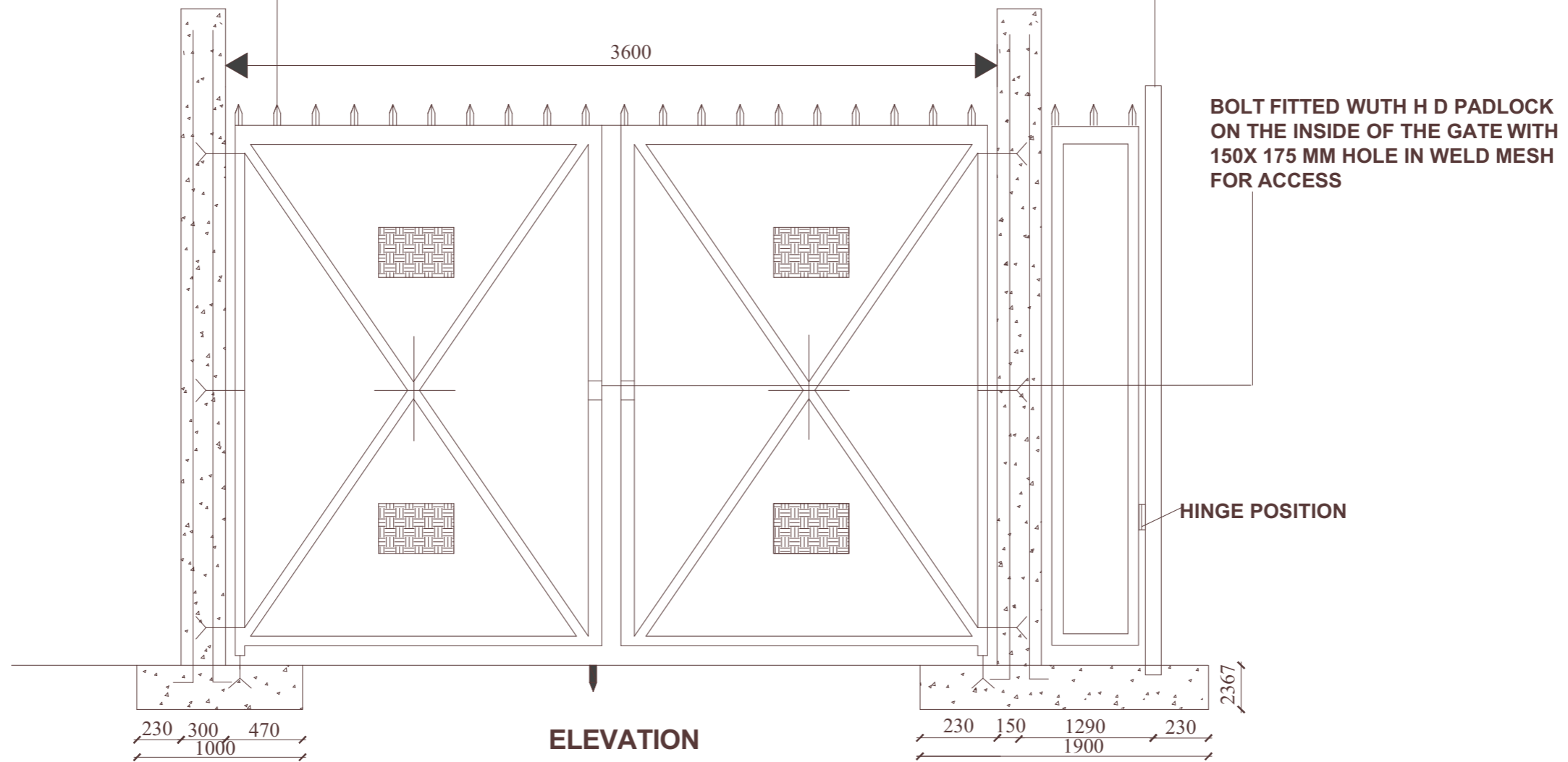
REVISION NOTES			
NO.	Date	Particulars	Initials



# GATE DETAILS

250 MM SPIKES AT 150 CENTRES

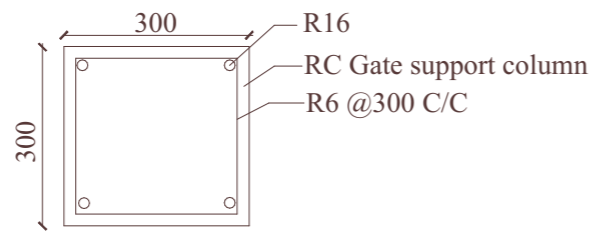
75 mm DIA CHS



BOLT FITTED WITH H D PADLOCK ON THE INSIDE OF THE GATE WITH 150X 175 MM HOLE IN WELD MESH FOR ACCESS

HINGE POSITION

**ELEVATION**



**SECTION A-A**

**CONTRACT NAME:**

**CONSULTANT:**

**REVISION NOTES**

**CLIENT:**



REPUBLIC OF UGANDA  
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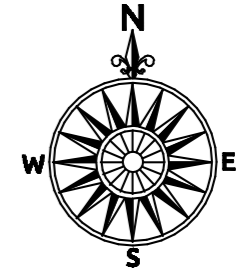
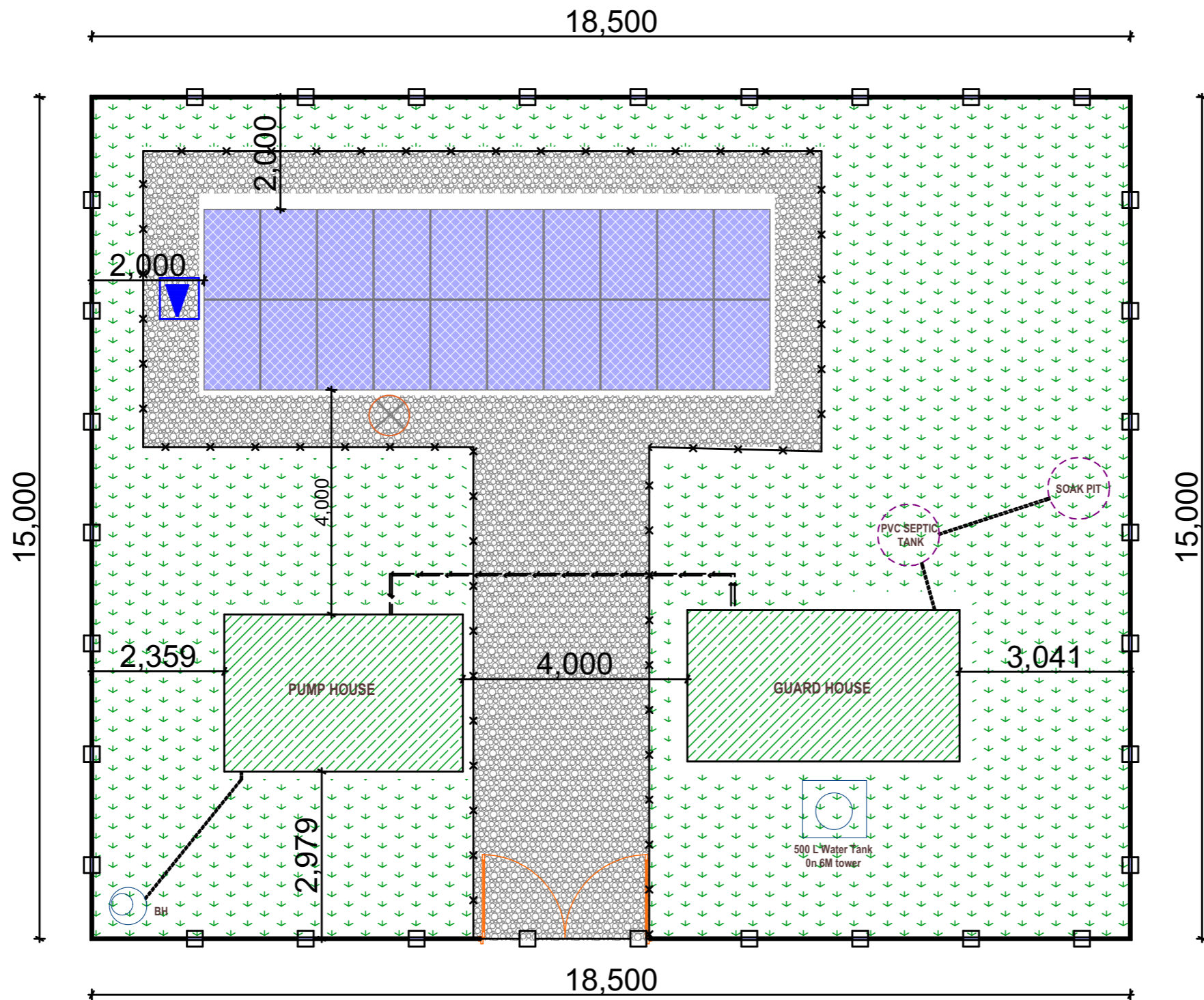
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Certified:	Stage:

**DRAWING TITLE:**

**Drawing No:**

NO.	Date	Particulars	Initials

**SITE LAY- OUT FOR 1X20 MODULES OF 295Wp**



**LEGEND**

	FENCE
	KERBSTONE
	EARTH PIT
	LIGHTNING PROTECTION
	GRAVEL
	SOLAR PANNELS
	GATE
	LAWN

**CLIENT:**



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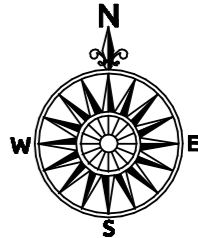
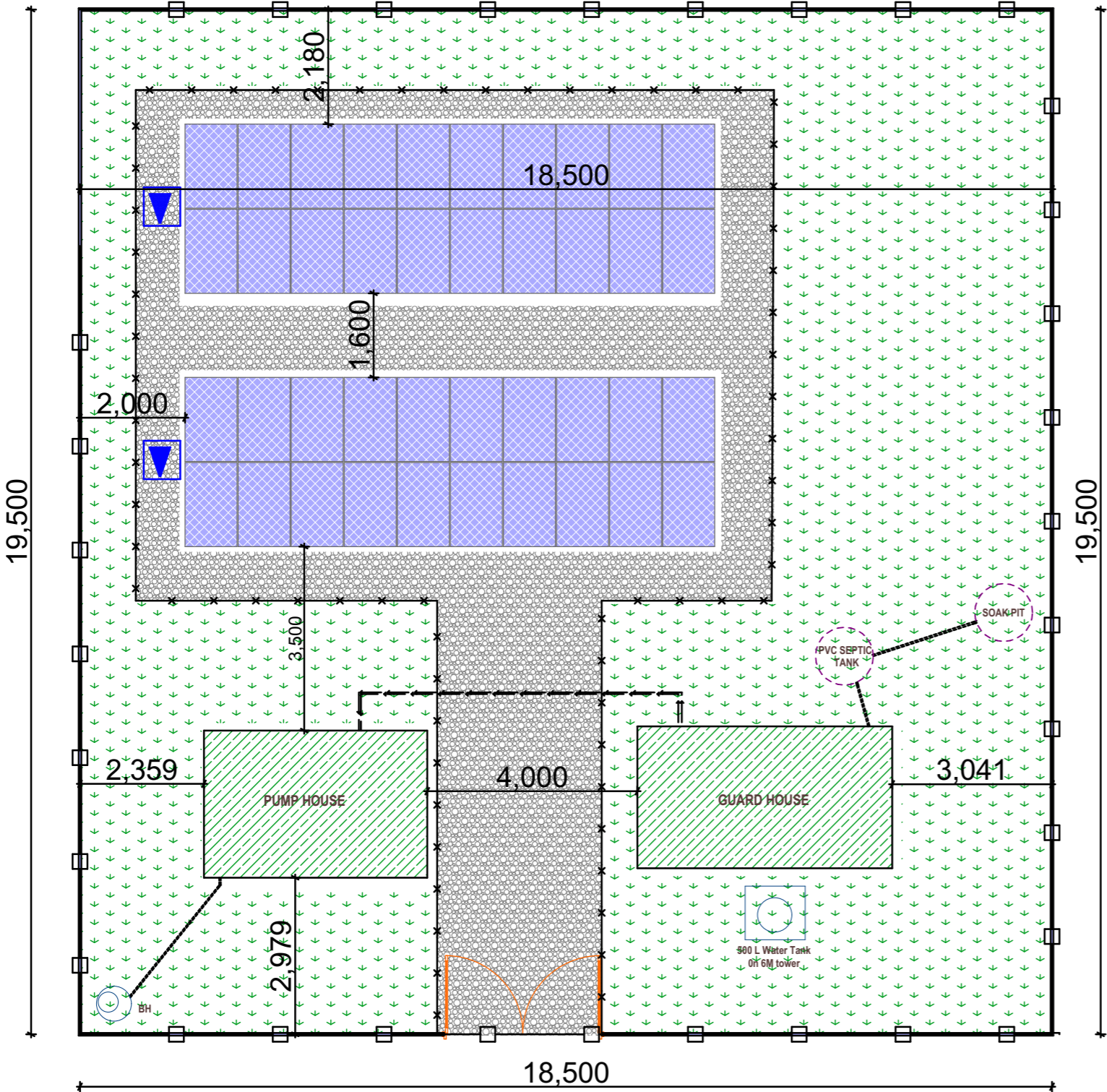
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Certified:	Stage:
<b>DRAWING TITLE:</b> GUARD HOUSE	
<b>Drawing No:</b>	

**REVISION NOTES**

NO.	Date	Particulars	Initials

**SITE LAY- OUT FOR 2X20 MODULES OF 295Wp**



**LEGEND**

	FENCE
	KERBSTONE
	EARTH PIT
	LIGHTNING PROTECTION
	GRAVEL
	SOLAR PANNELS
	GATE
	LAWN

**CLIENT:**



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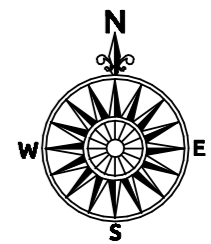
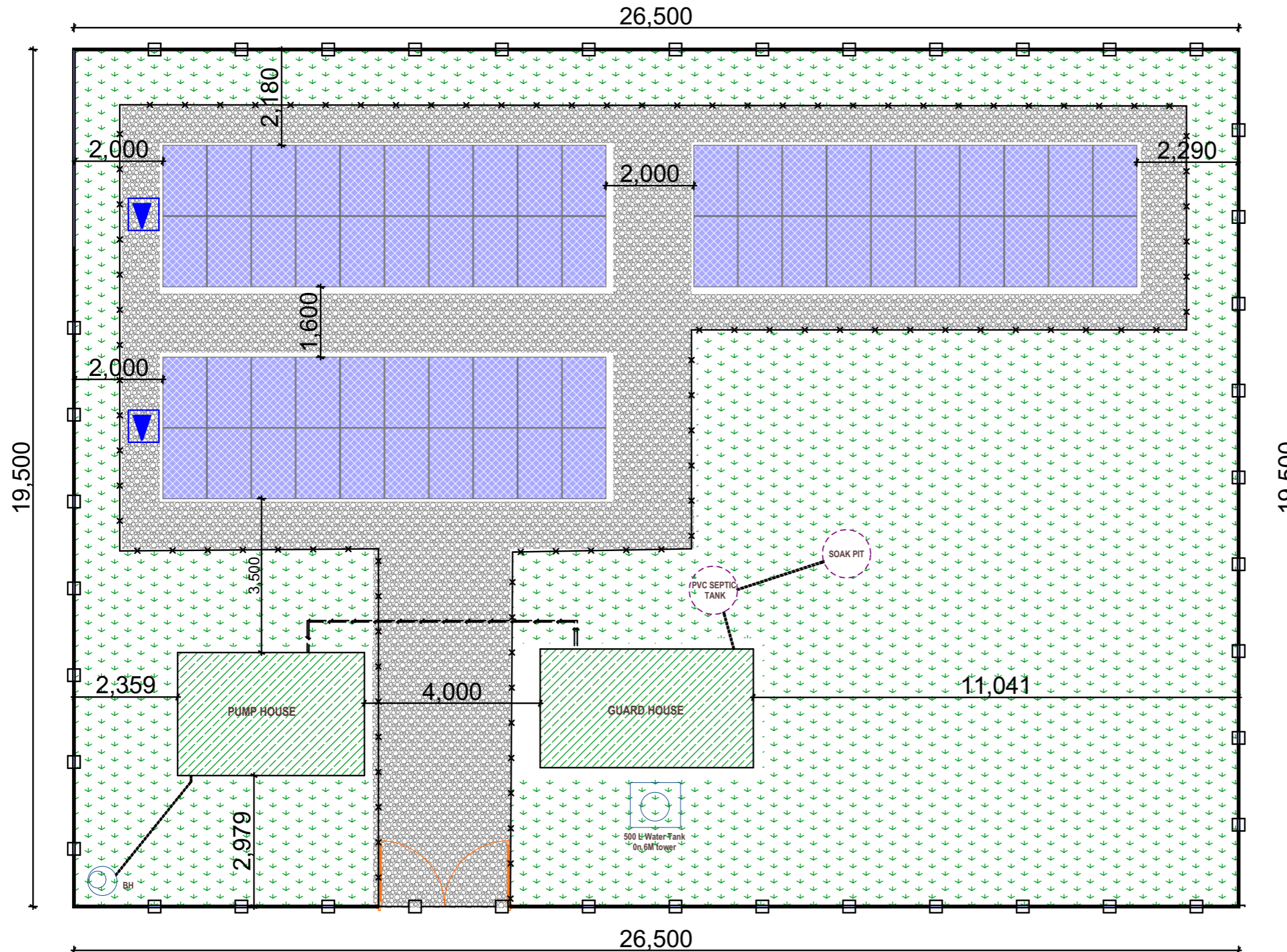
**Drawing No:** \_\_\_\_\_

**REVISION NOTES**

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SITE LAY- OUT FOR 3X20 MODULES OF 295Wp



LEGEND

	FENCE
	KERBSTONE
	EARTH PIT
	LIGHTNING PROTECTION
	GRAVEL
	SOLAR PANNELS
	GATE
	LAWN

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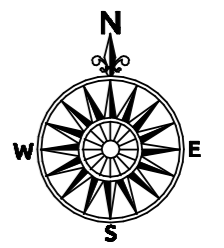
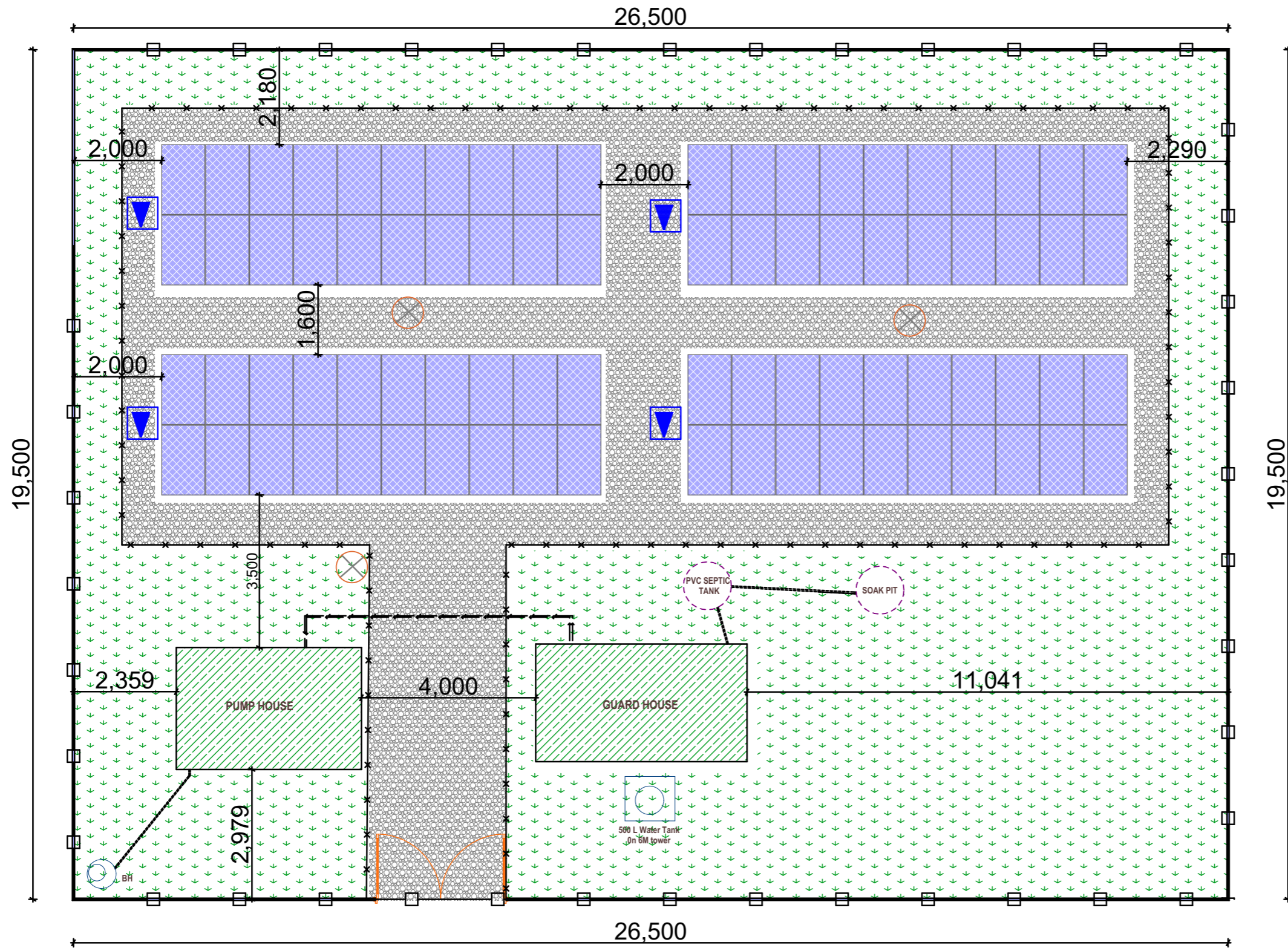
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Certified:	Stage:
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<b>Drawing No.:</b>	

**REVISION NOTES**

NO.	Date	Particulars	Initials



**SITE LAY- OUT FOR 4X20 MODULES OF 295Wp**



**LEGEND**

	FENCE
	KERBSTONE
	EARTH PIT
	LIGHTNING PROTECTION
	GRAVEL
	SOLAR PANNELS
	GATE
	LAWN

**CLIENT:**



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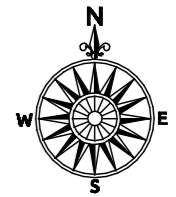
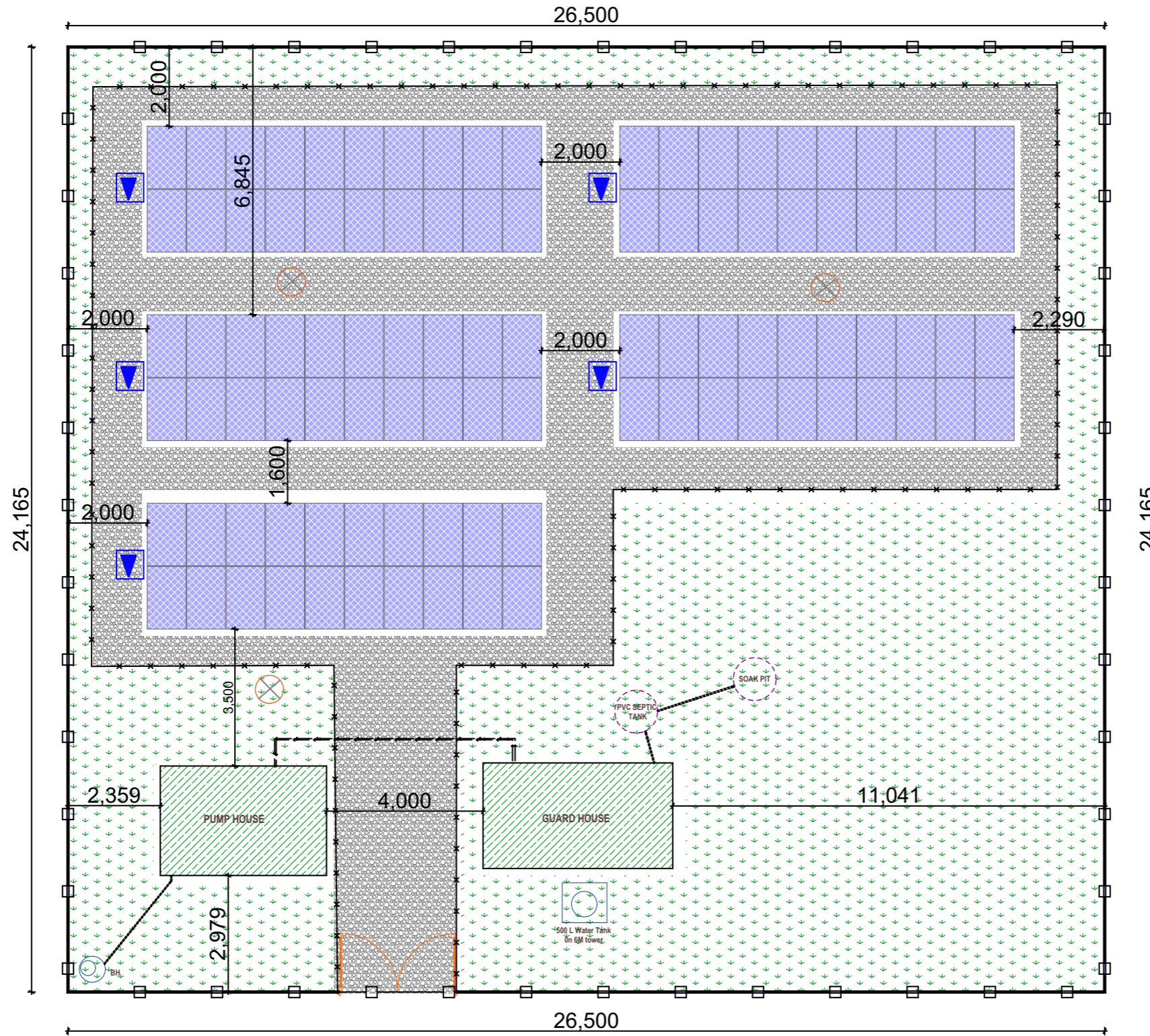
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Certified:	Stage:
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<b><u>Drawing No:</u></b>	

**REVISION NOTES**

NO.	Date	Particulars	Initials



SITE LAY-OUT FOR 5X20 MODULES OF 295Wp



LEGEND

	FENCE
	KERBSTONE
	EARTH PIT
	LIGHTNING PROTECTION
	GRAVEL
	SOLAR PANNELS
	GATE
	LAWN

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**DRAWING TITLE:**

GUARD HOUSE

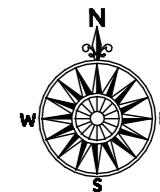
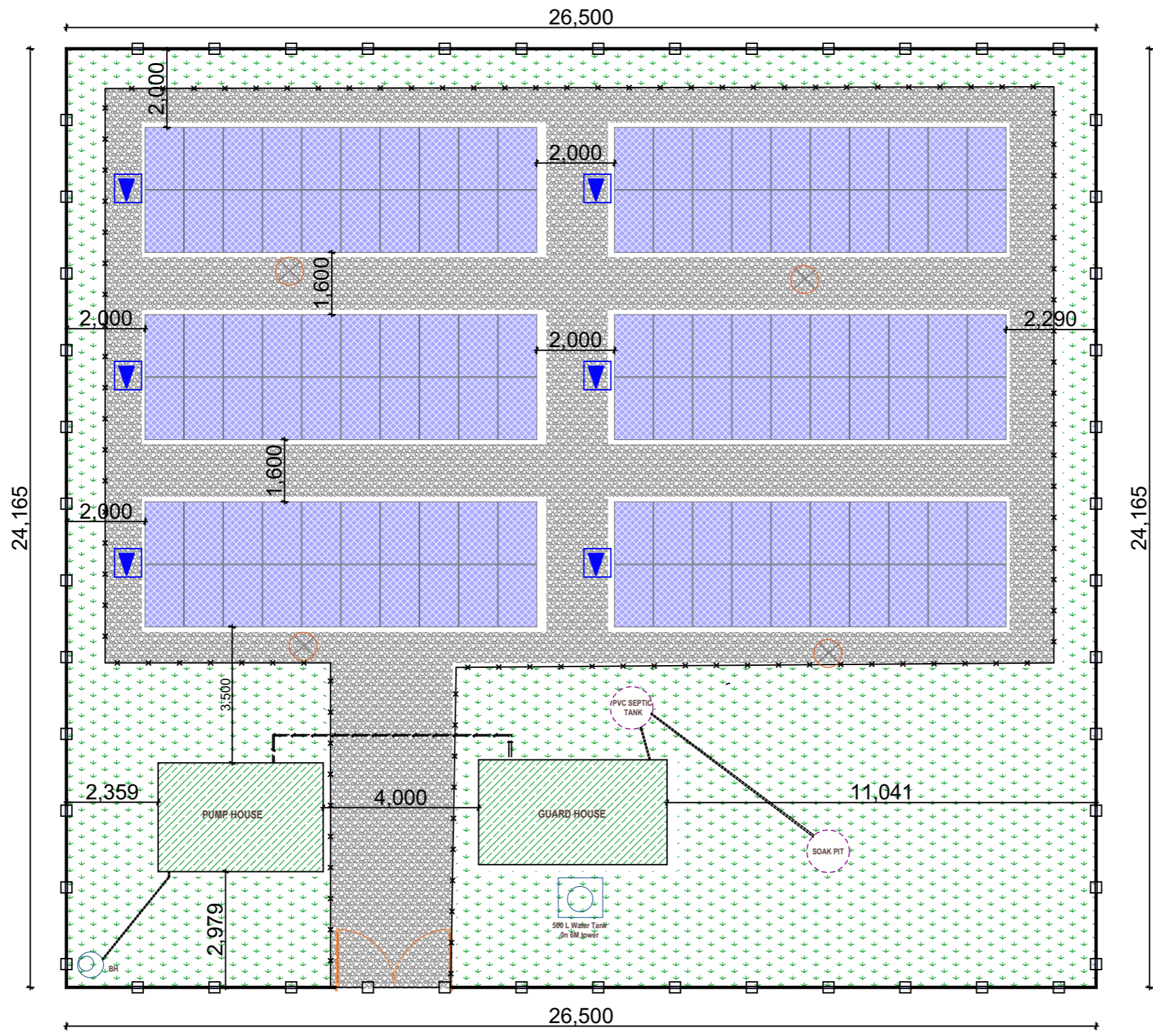
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SITE LAY- OUT FOR 6X20 MODULES OF 295Wp



LEGEND

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- EARTH PIT
- LIGHTNING PROTECTION
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- SOLAR PANNELS
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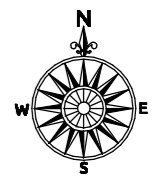
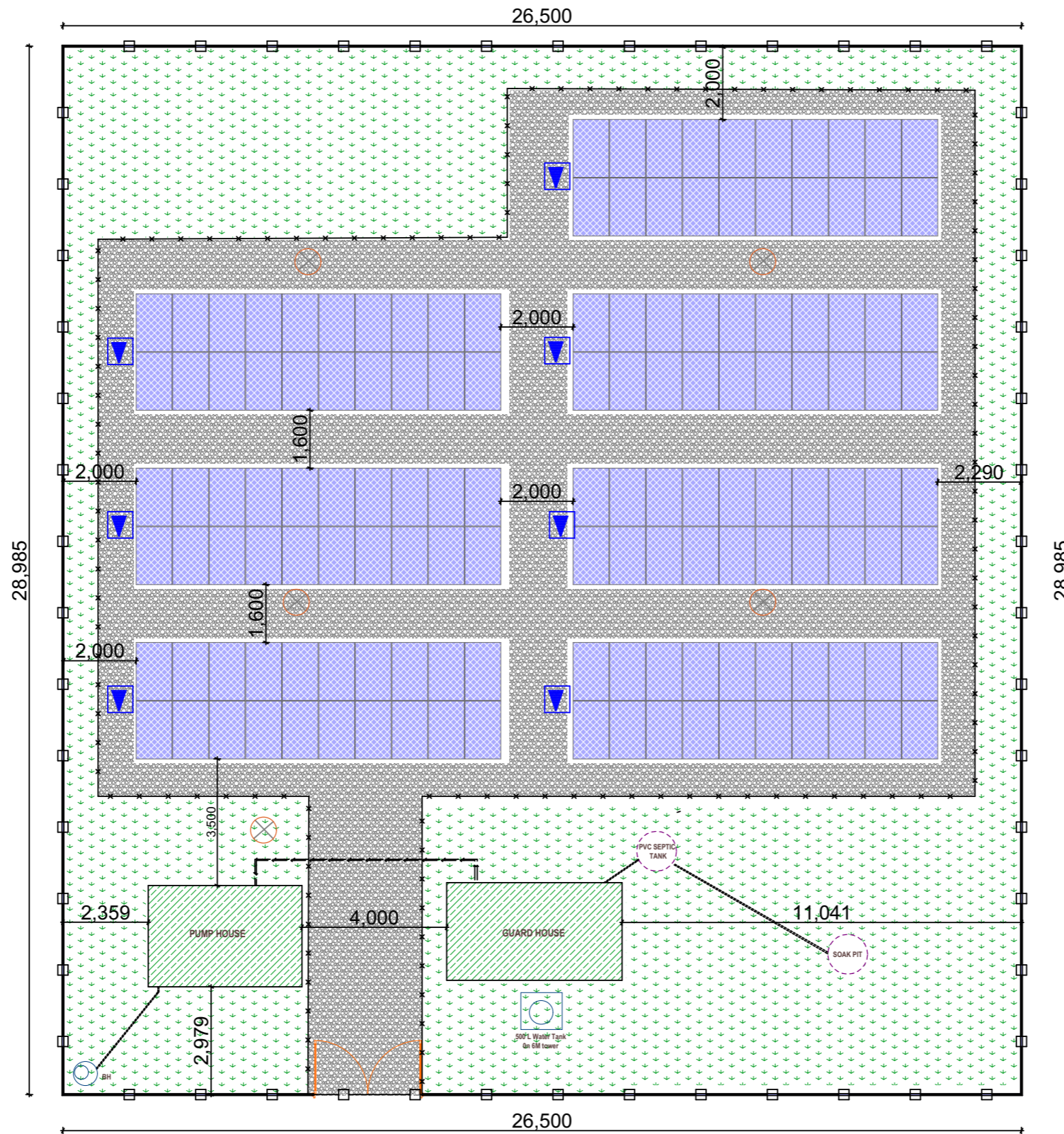
Designed:	Checked Arch. Design:
Drawn:	Checked Technical:
Scale: AS SHOWN ON DWGS	Date:
Certified:	Stage:

**DRAWING TITLE:**  
GUARD HOUSE

**Drawing No:**

REVISION NOTES			
NO.	Date	Particulars	Initials





LEGEND

	FENCE
	KERBSTONE
	EARTH PIT
	LIGHTNING PROTECTION
	GRAVEL
	SOLAR PANNELS
	GATE
	LAWN

CONTRACT NAME:

SUPPLY, INSTALLATION AND COMMISSIONING OF SOLAR PHOTOVOLTAIC (PV) ENERGY PACKAGES FOR WATER FACILITIES

PROJECT NAME:

ELECTRICITY ACCESS SCALE-UP PROJECT (EASP)

CONSULTANT:

Blank area for consultant information.

Designed:	Checked Arch. Design:
Drawn:	Checked Technical:
Scale: AS SHOWN ON DWGS	Date:
Certified:	Stage:
<b>DRAWING TITLE:</b>	
GUARD HOUSE	
<b>Drawing No.:</b>	

REVISION NOTES

NO.	Date	Particulars	Initials

CLIENT:



REPUBLIC OF UGANDA  
MINISTRY OF WATER AND ENVIRONMENT