

 **PROJECT**

SITE MAINTENANCE PROJECTS

AL HODEIDAH GOV. - YEMEN

FUNDED BY



YHF Yemen
Humanitarian
Fund

PREPARED BY:



Deem
For Development Organization
منظمة دعم التنمية

DRAWINGS

APRIL 2025

Drawing Index :

I MAIN NOTES

SECTION 1. Well Rehabilitation & Installing Solar-System Pump

SECTION 2. EMERGENCY LATRINES

SECTION 3. SOLAR LAMP DRAWING

SECTION 4. WATER POINT DRAWING

REMARKS: -

1. THE LABORS SHOULD TO WEAR SAFETY EQUIPMENTS DARING THE WORK HOURS.

2. EXCAVATION & BACKFILLING ARE IMPLEMENTED ACCORDING TO SPECIFIC DIMENSIONS AND INSTRUCTION OF THE SUPERVISOR ENGINEER

3. THE RATES OF BACKFILLING SHALL INCLUDE FOR WATERING AND COMPACTING IN LAYERS MAX 25CM OR AS INSTRUCTION OF THE SUPERVISOR ENGINEER.

4. SELECTED BACKFILLING MATERIAL APPROVED BY THE ENGINEER OR IMPORTED MATERIAL WILL BE USED SPECIFIED BY THE SUPERVISOR ENGINEER.
5. THE RATES OF EXCAVATION SHALL INCLUDE FOR EXCAVATIONS IN ALL TYPES OF SOIL AND REMOVING SURPLUS FROM SITE TO APPROVED LOCATIONS SPECIFIED BY THE SUPERVISOR ENGINEER.

6. SETTING OUT DIMENSIONS SHOWN ON THE DRAWINGS SHALL BE VERIFIED BY THE CONTRACTOR.

7. ANY MISSING DETAILS WHERE NOT SHOWN SHALL BE DISCUSSED WITH THE ENGINEER . IF ANY.

8. THE MINIMUM YIELD STRENGTH FOR ALL STEEL SECTIONS SHOULD TO BE (FY 240=MPA).

9. ALL BOLTS ARE A325 OR A490 HIGH STRENGTH BOLTS (HARDNESS EQUAL 8.8). AS AISC.
10. ALL WORKMANSHIP AND MATERIALS SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND AMERICAN CONCRETE CODE ACI-318M-2014 (REINFORCED CONCRETE STRUCTURES).

11. CONCRETE BASES ARE SPRAYED FOR AT LEAST 7 DAYS THREE TIMES A DAY.

Well Rehabilitation & Installing Solar-System Pump DRAWING

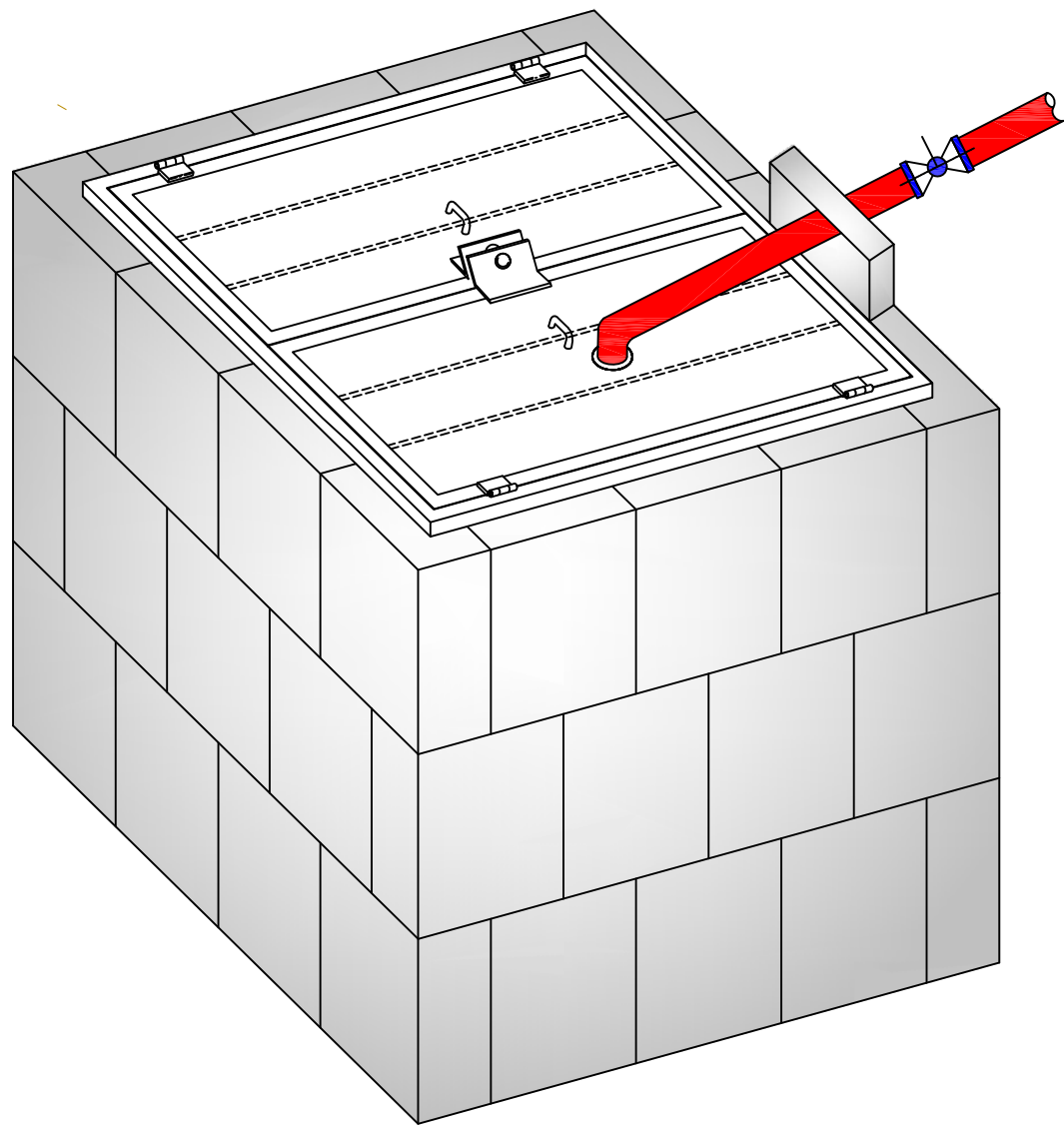
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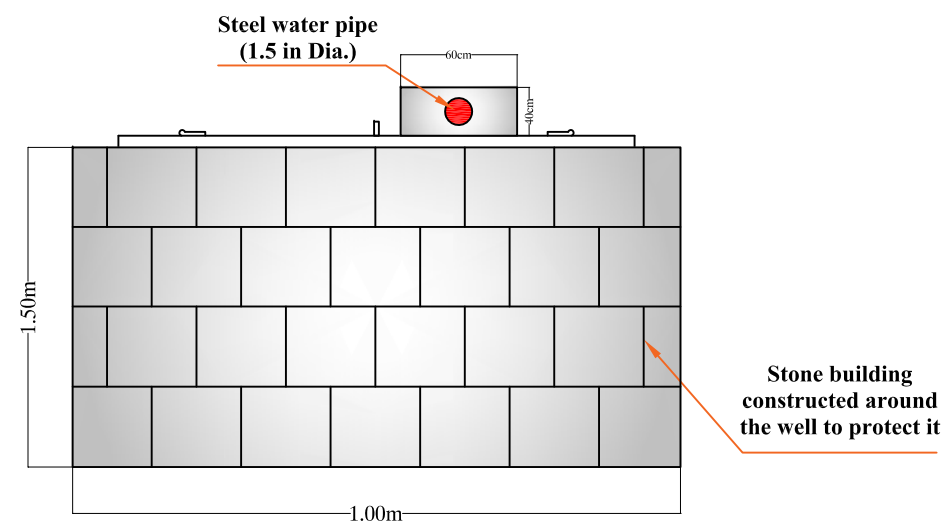
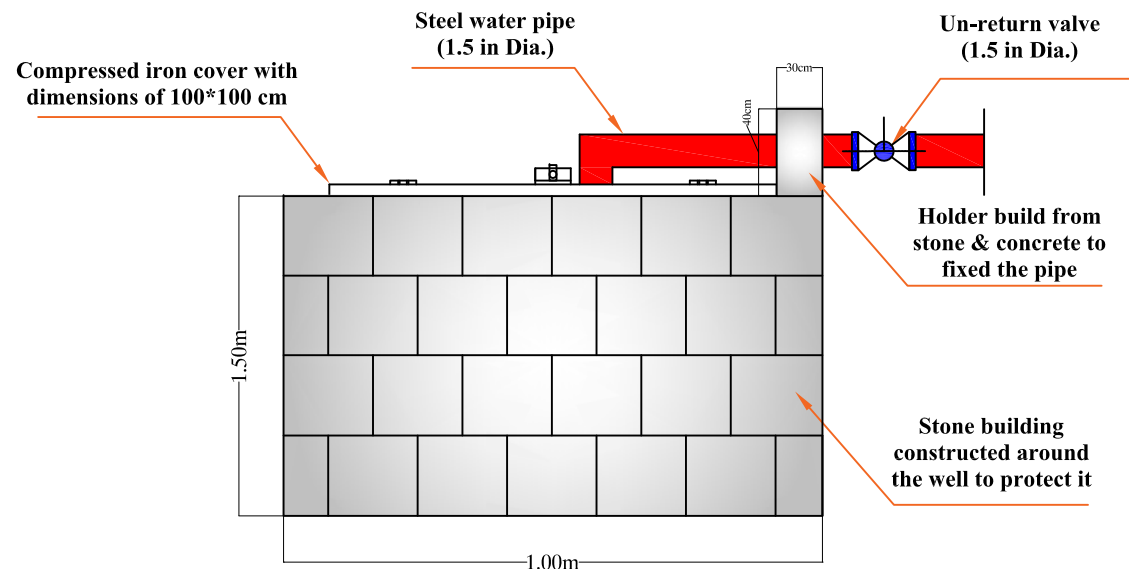
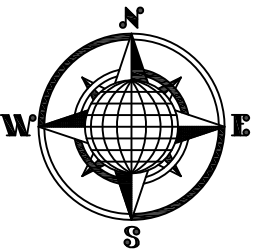
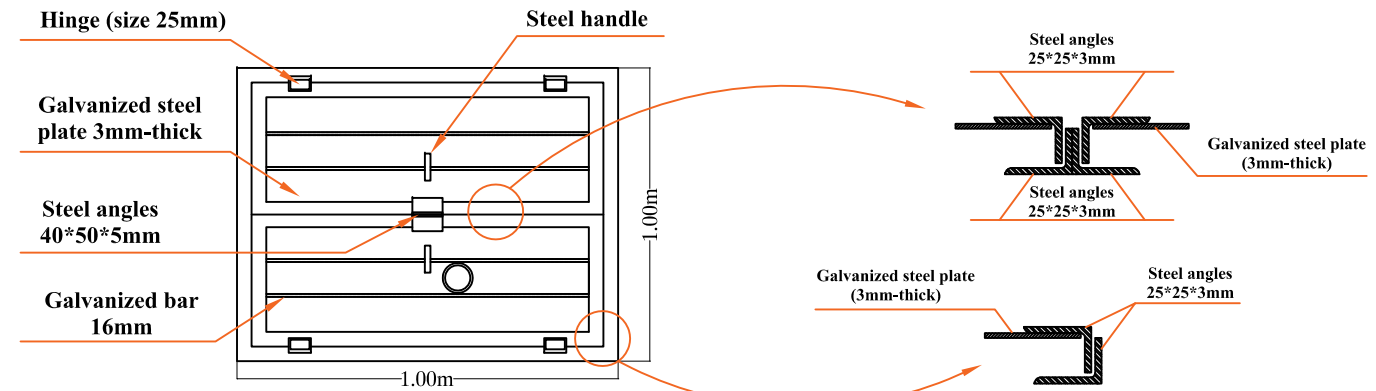
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3D Model



HATCHING KEY PLAN

Symbol	Description
	Ashlars masonry
	Masonry paving
	Mass concrete
	Reinforcement concrete
	Plain concrete
	Compacted gravel
	Soil

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WELL PROTECTION DETAILS



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Project Engineer

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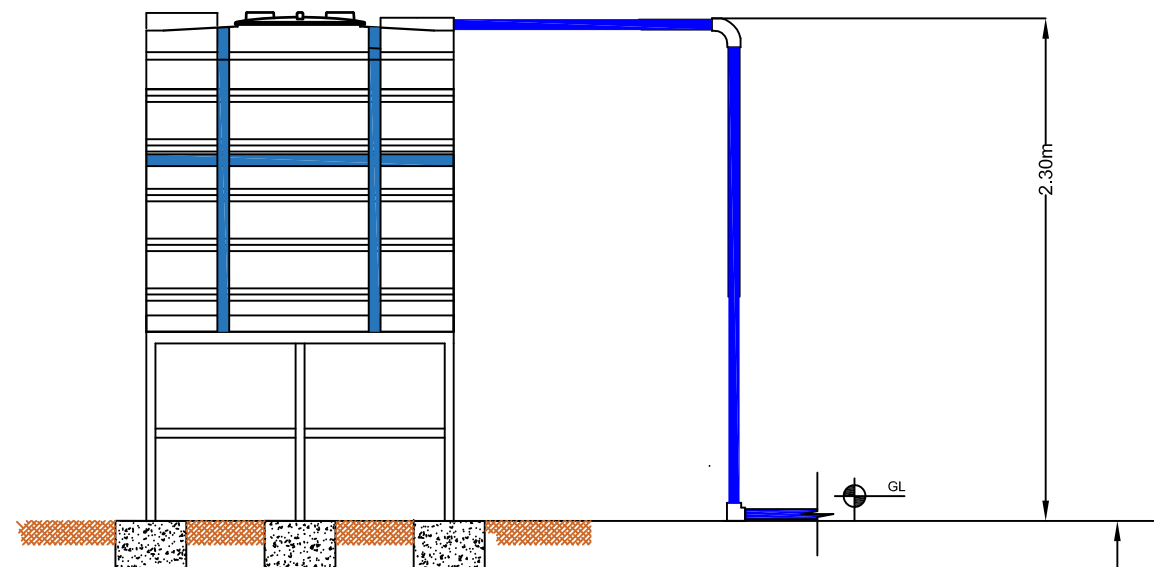
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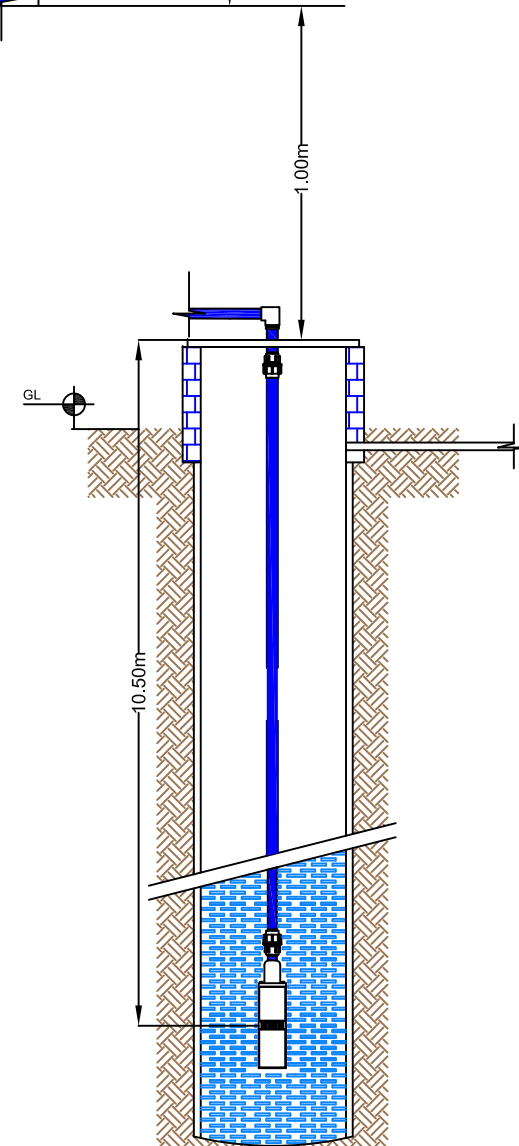
PROJECT

SITE MAINTENANCE PROJECTS

AL KHUKHAH DISTRICT AL HODEIDAH GOV. - YEMEN

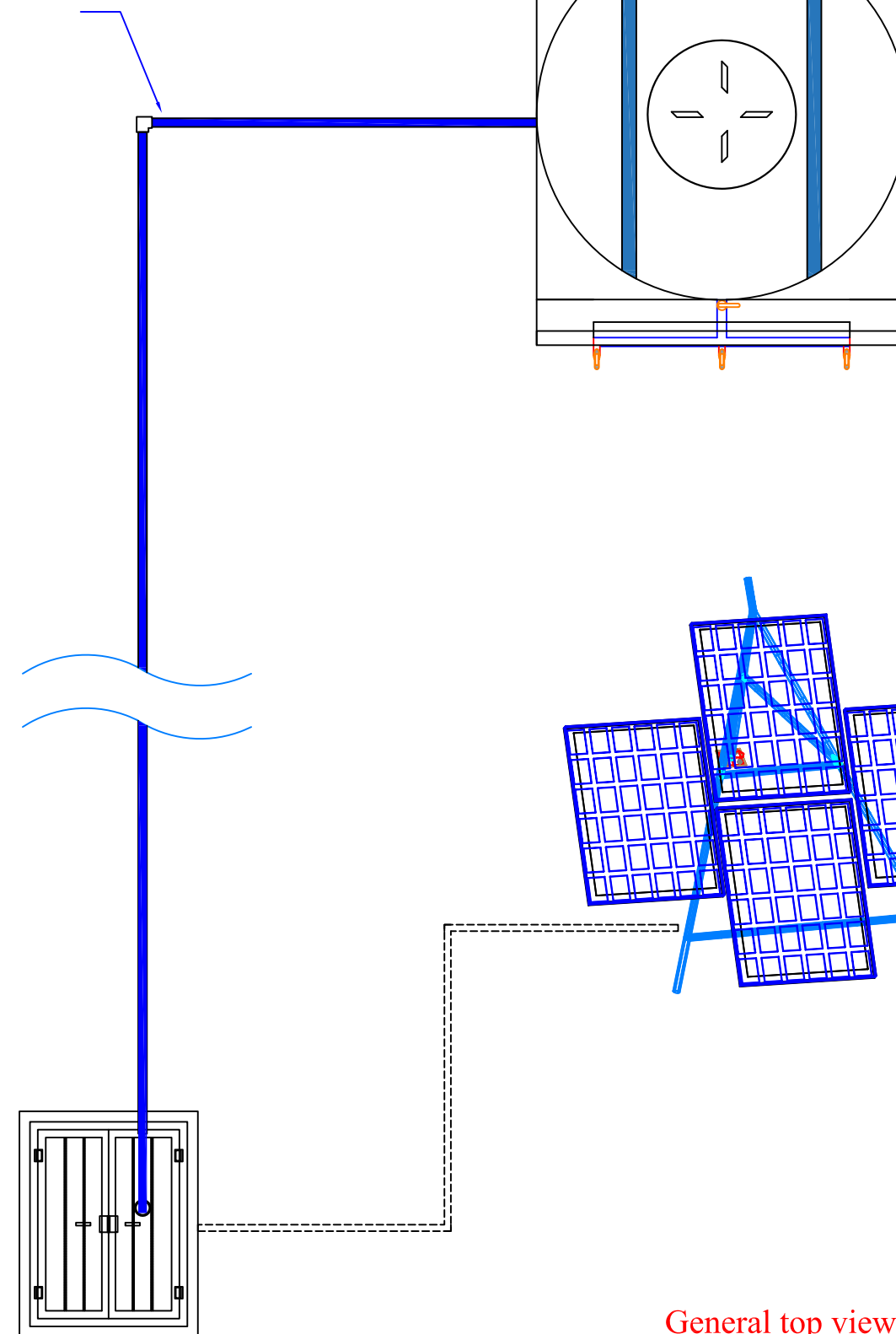


Lifting Head



Well section

The total horizontal distance for the polyethylene pipe 40 m



General top view



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GENERAL VIEW FOR THE PROJECT COMPONENTS



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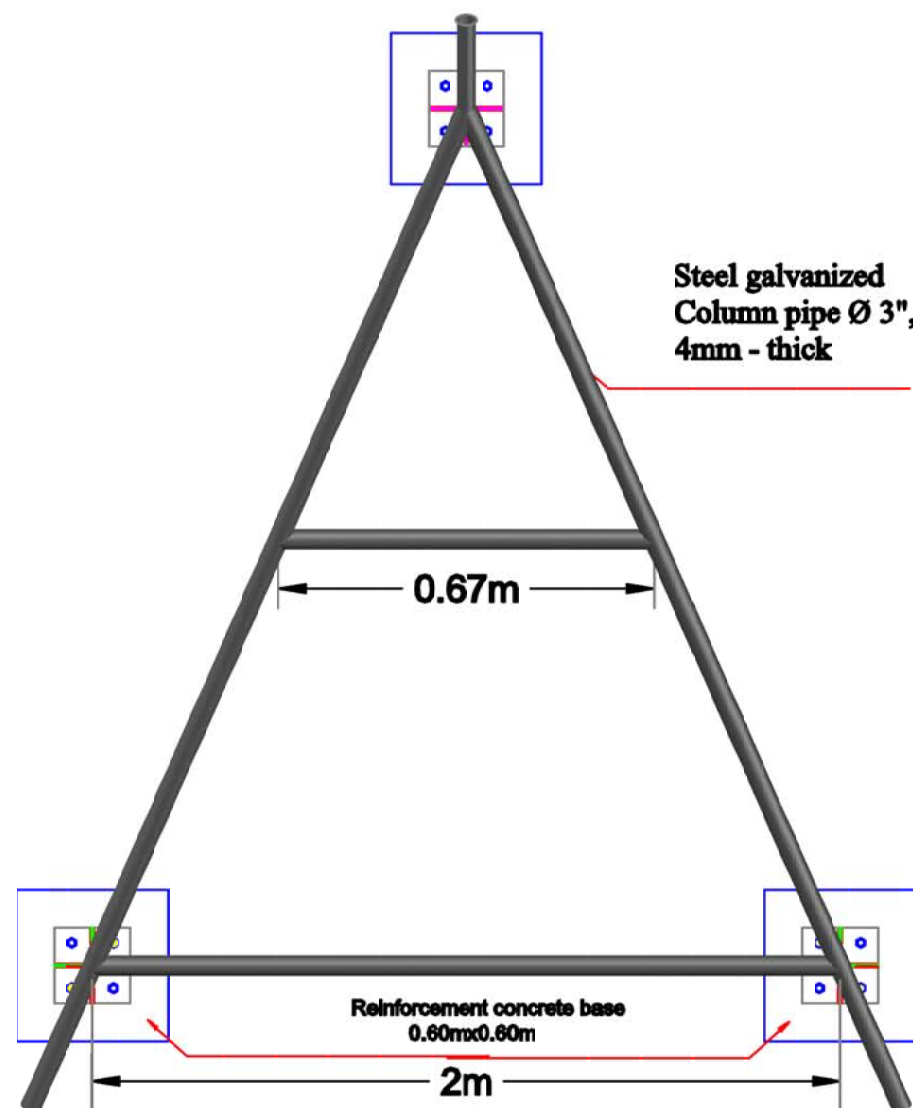
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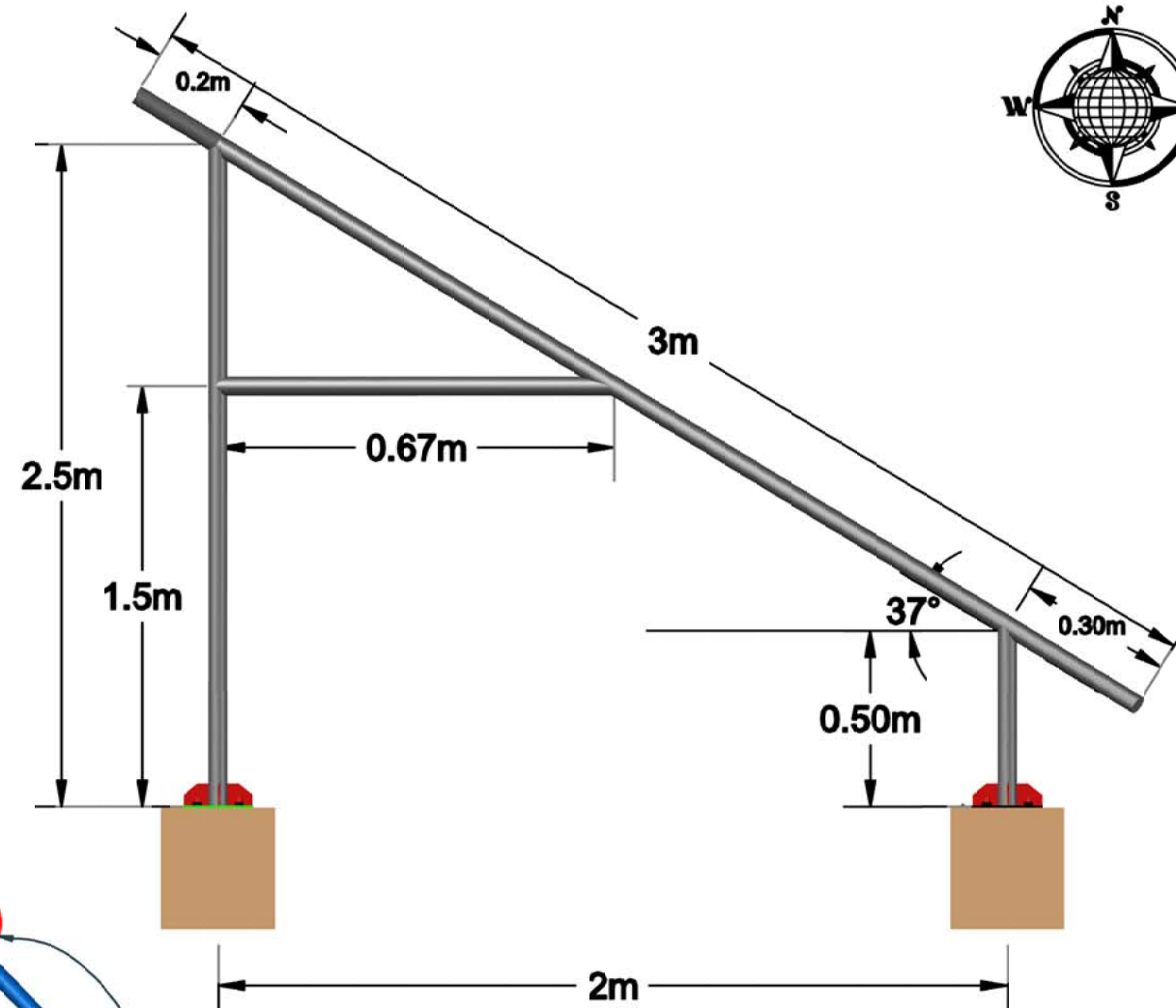
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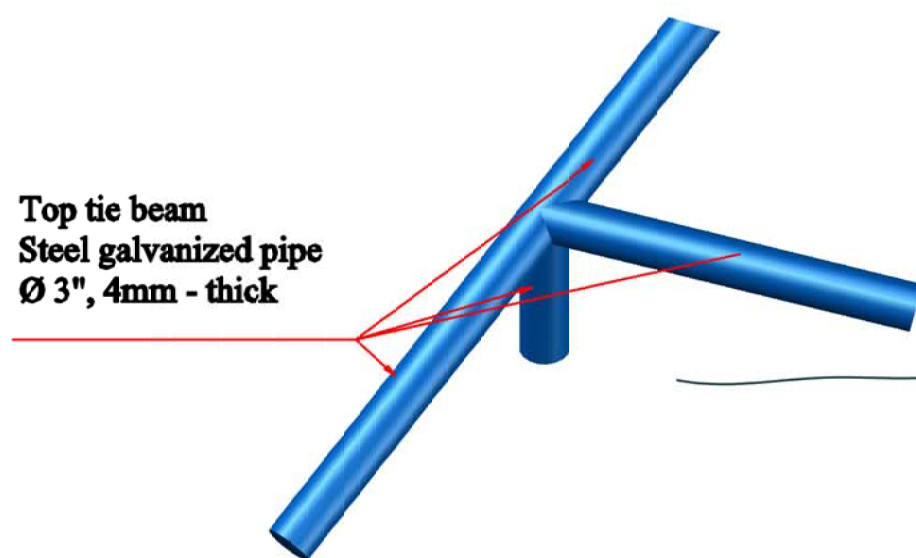
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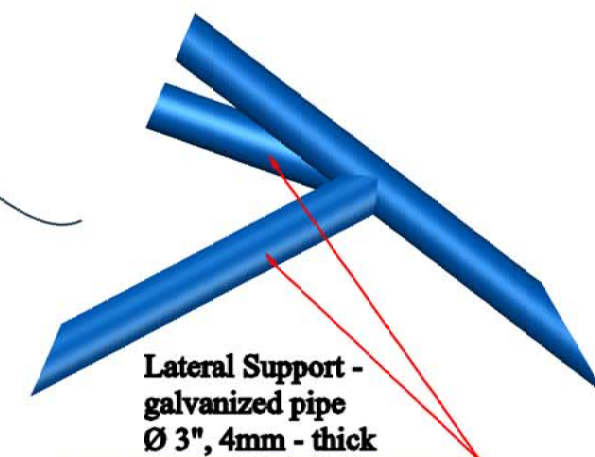
Panels Base - Front View



Panels Base - Side View



Panels Base
- 3D Model



Lateral Support -
galvanized pipe
Ø 3", 4mm - thick

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PANELS STEEL BASE



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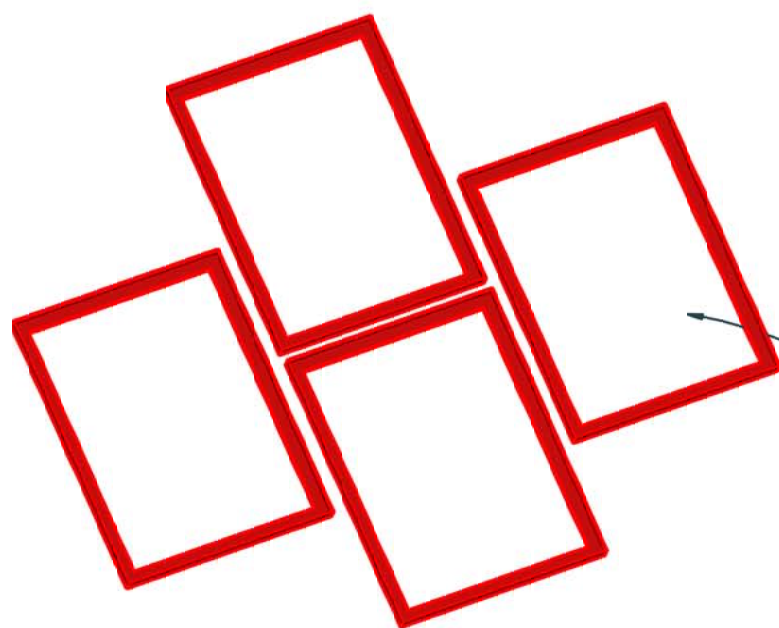
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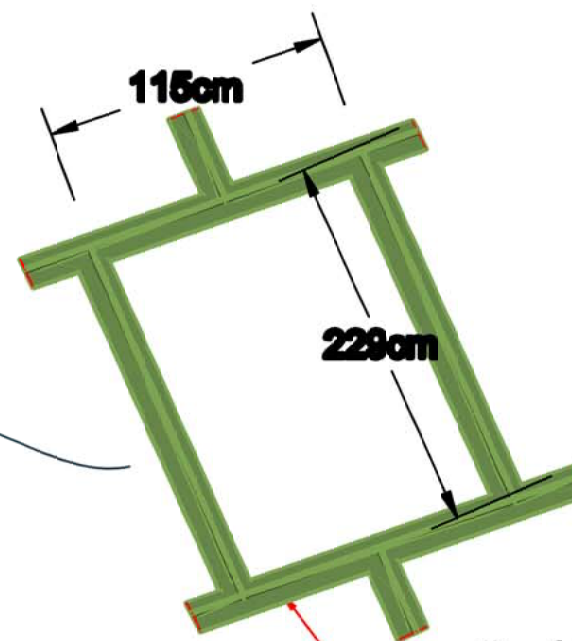
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SITE MAINTENANCE PROJECTS

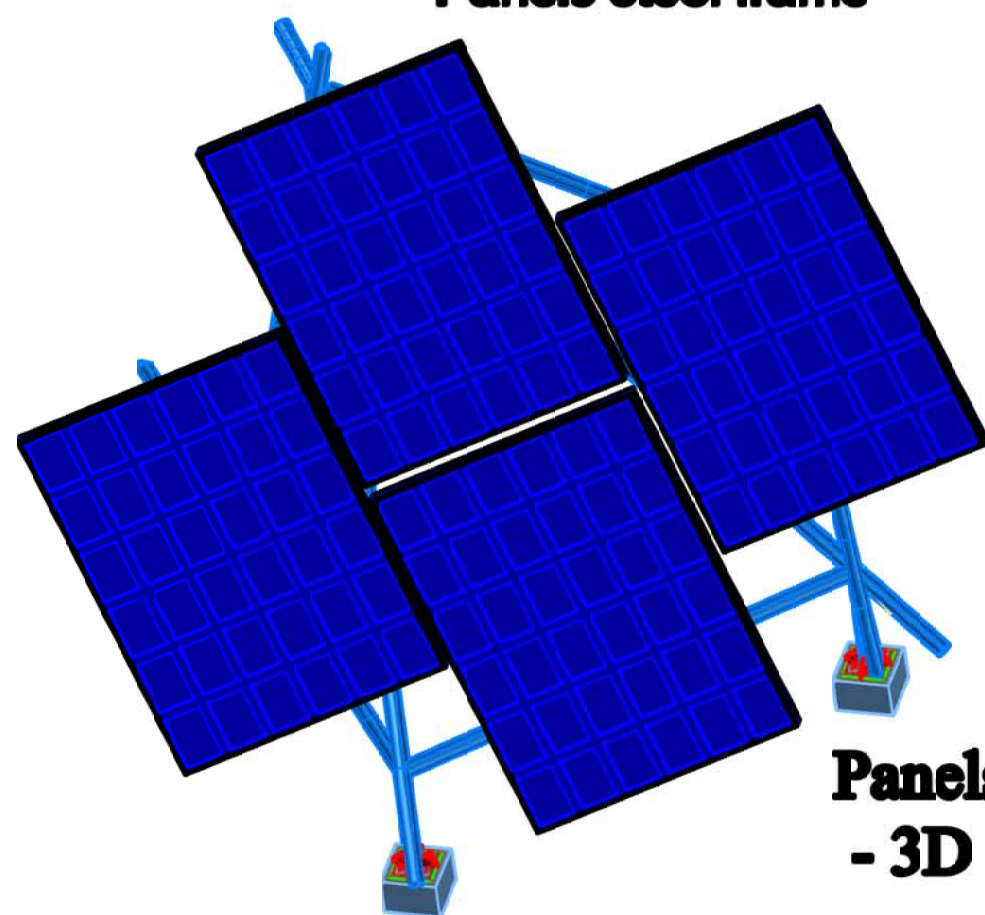
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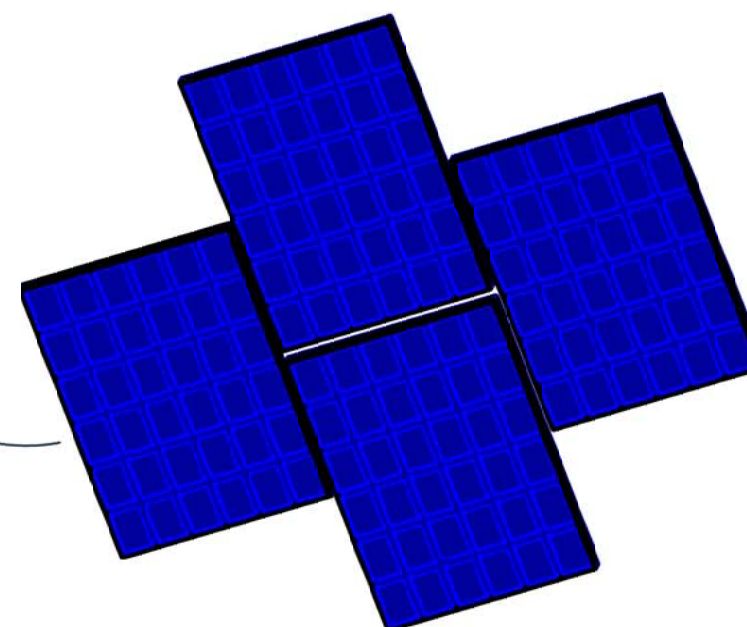
Panels steel frame



**Steel L-section , 2 in & 5mm - thick
Coat by one layer of red primer paint
and one layer of weather shield paint.**



**Panels Base
- 3D View**



**Poly-Crystalline solar panels ,
Dim. (2274x1134x35 mm) , P. max 500Wp**

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D4 PANELS STEEL BASE



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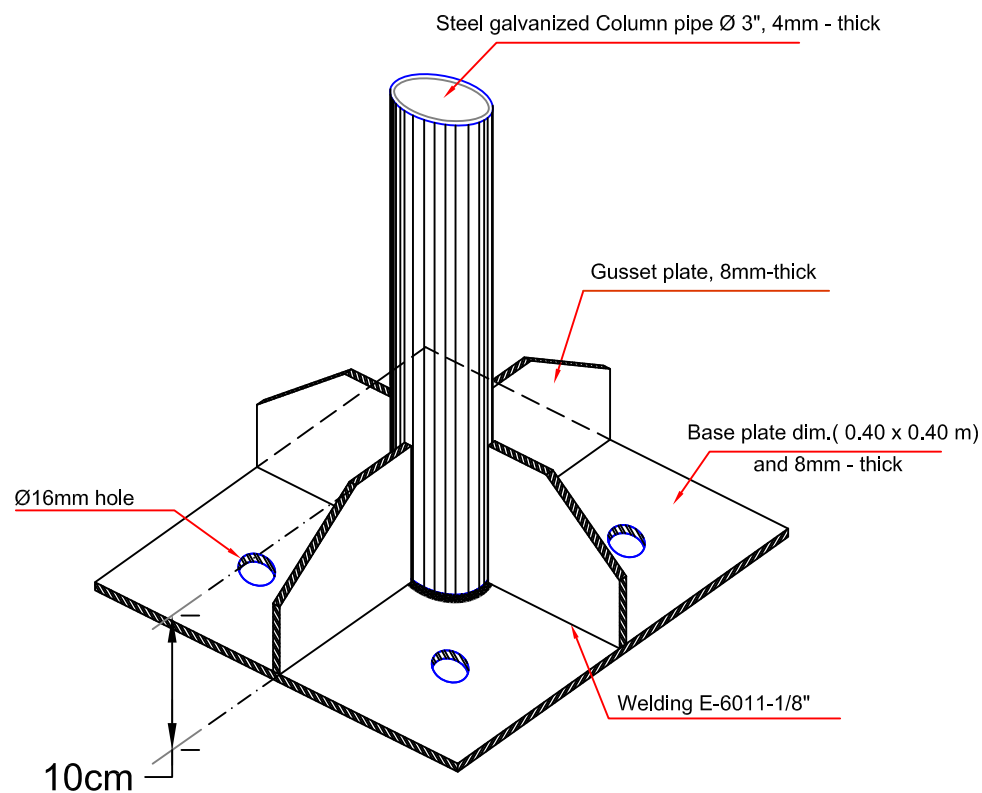
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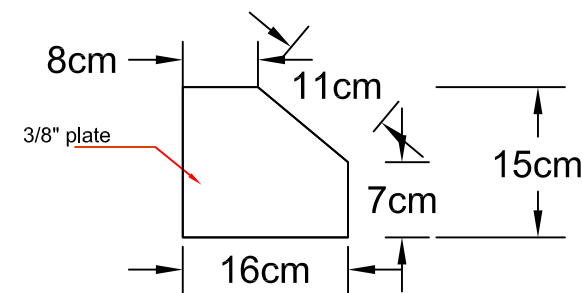
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SITE MAINTENANCE PROJECTS

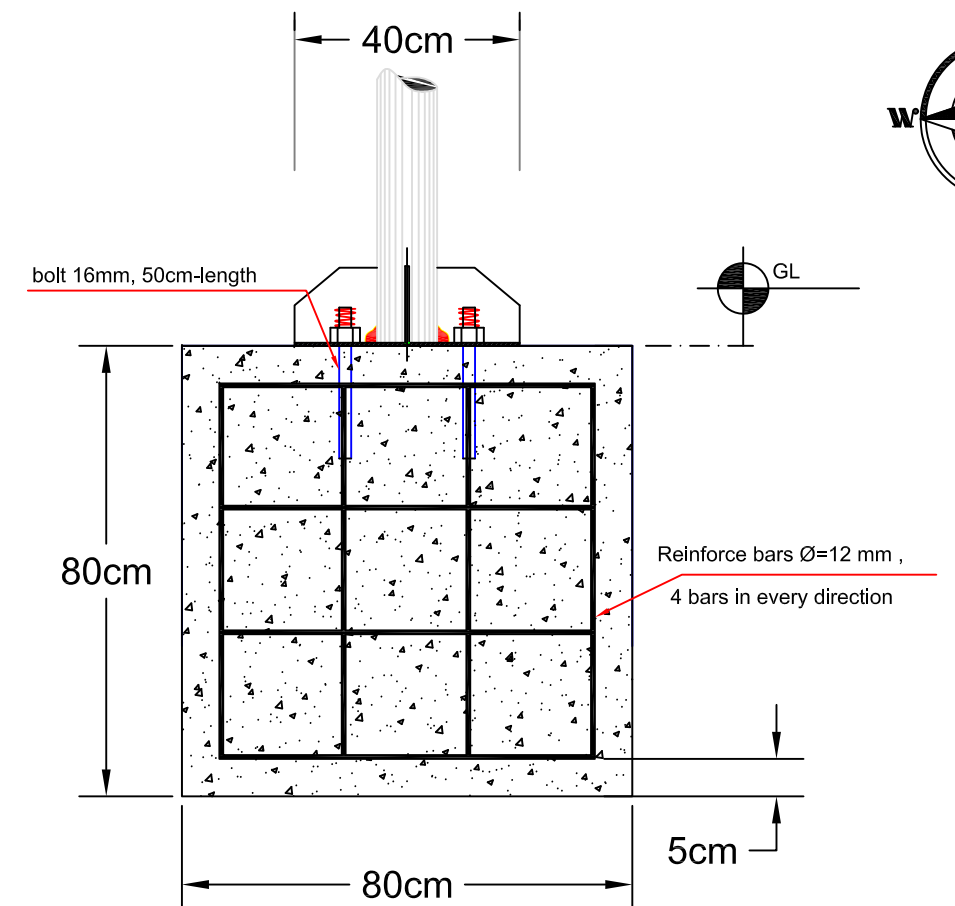
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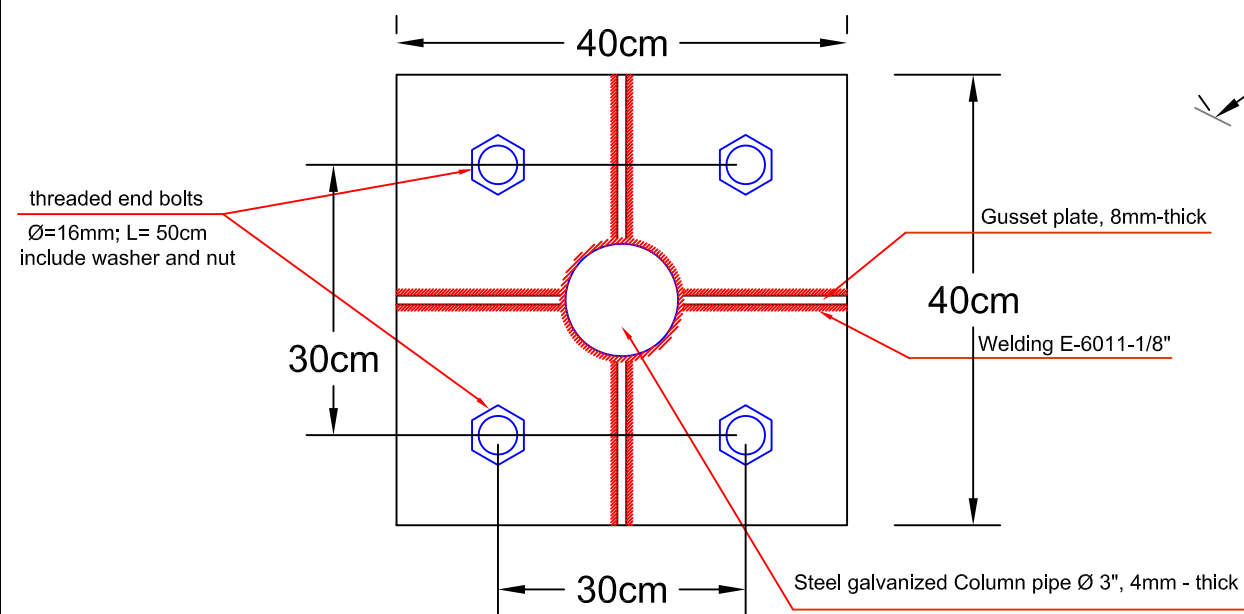
Steel Pipe Column



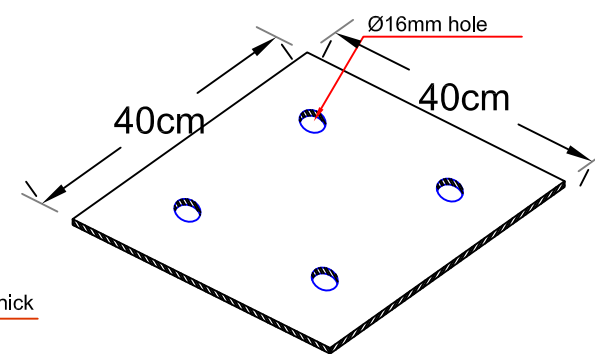
Gusset plate



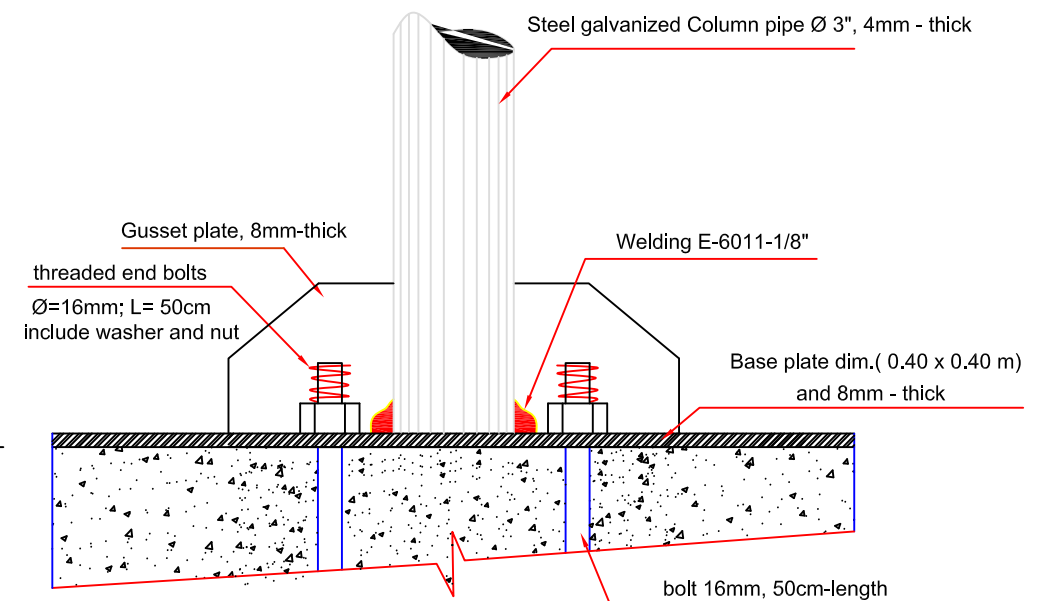
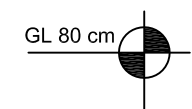
Reinforcement concrete base



Top View



Base plate



Steel Pipe Column

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FOUNDATION DETAILS



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Legend :

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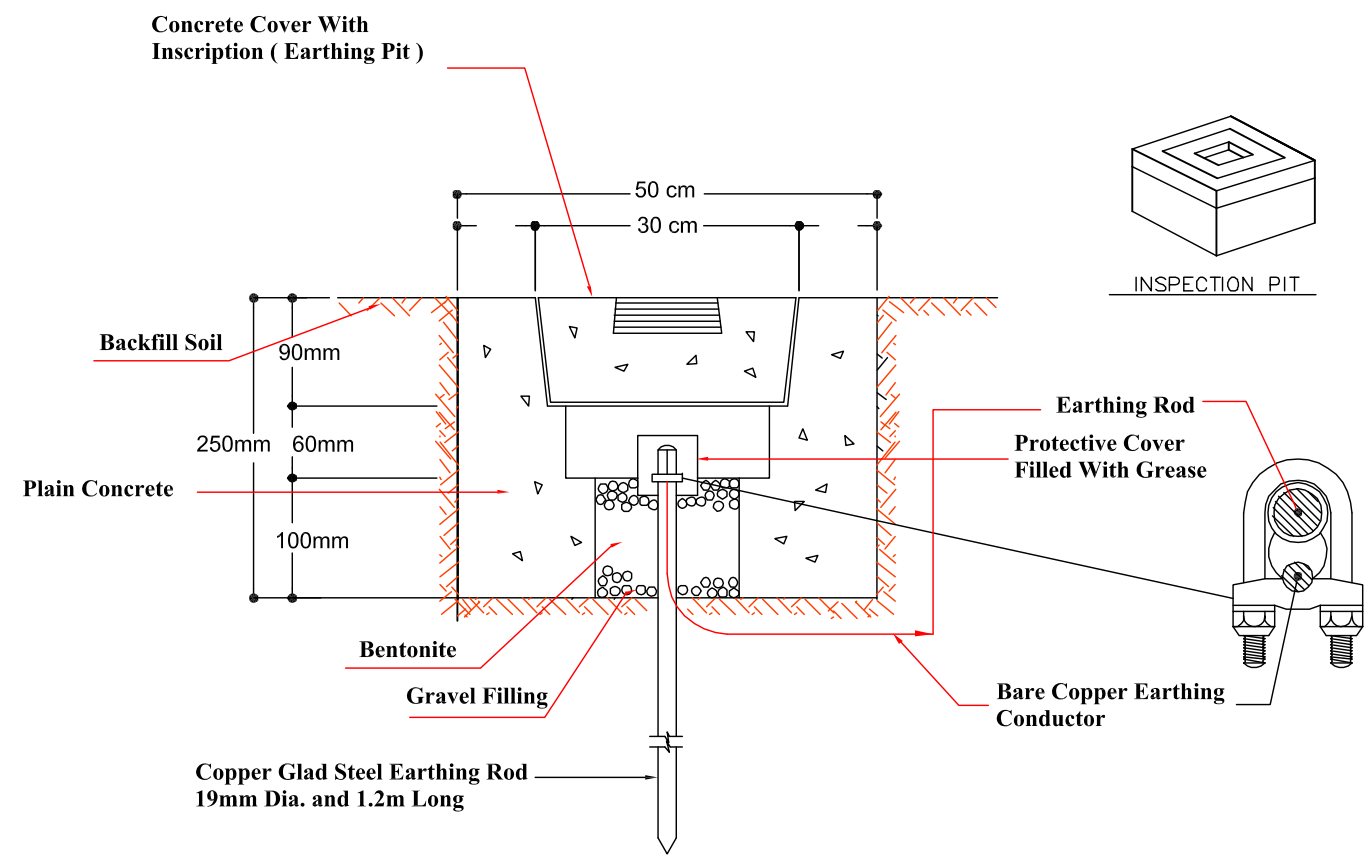
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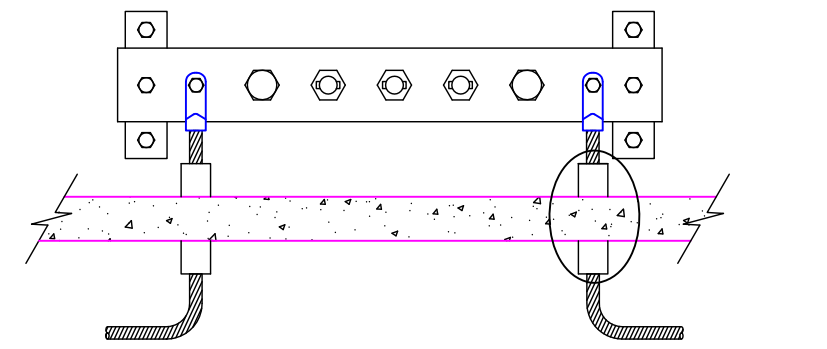
PROJECT

SITE MAINTENANCE PROJECTS

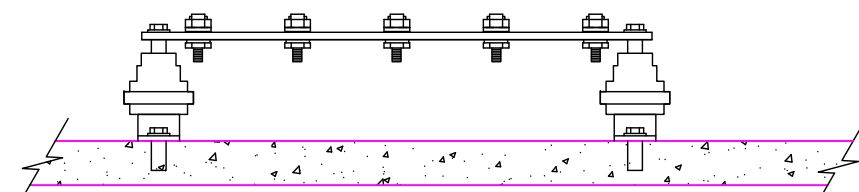
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Earthing Pit Details

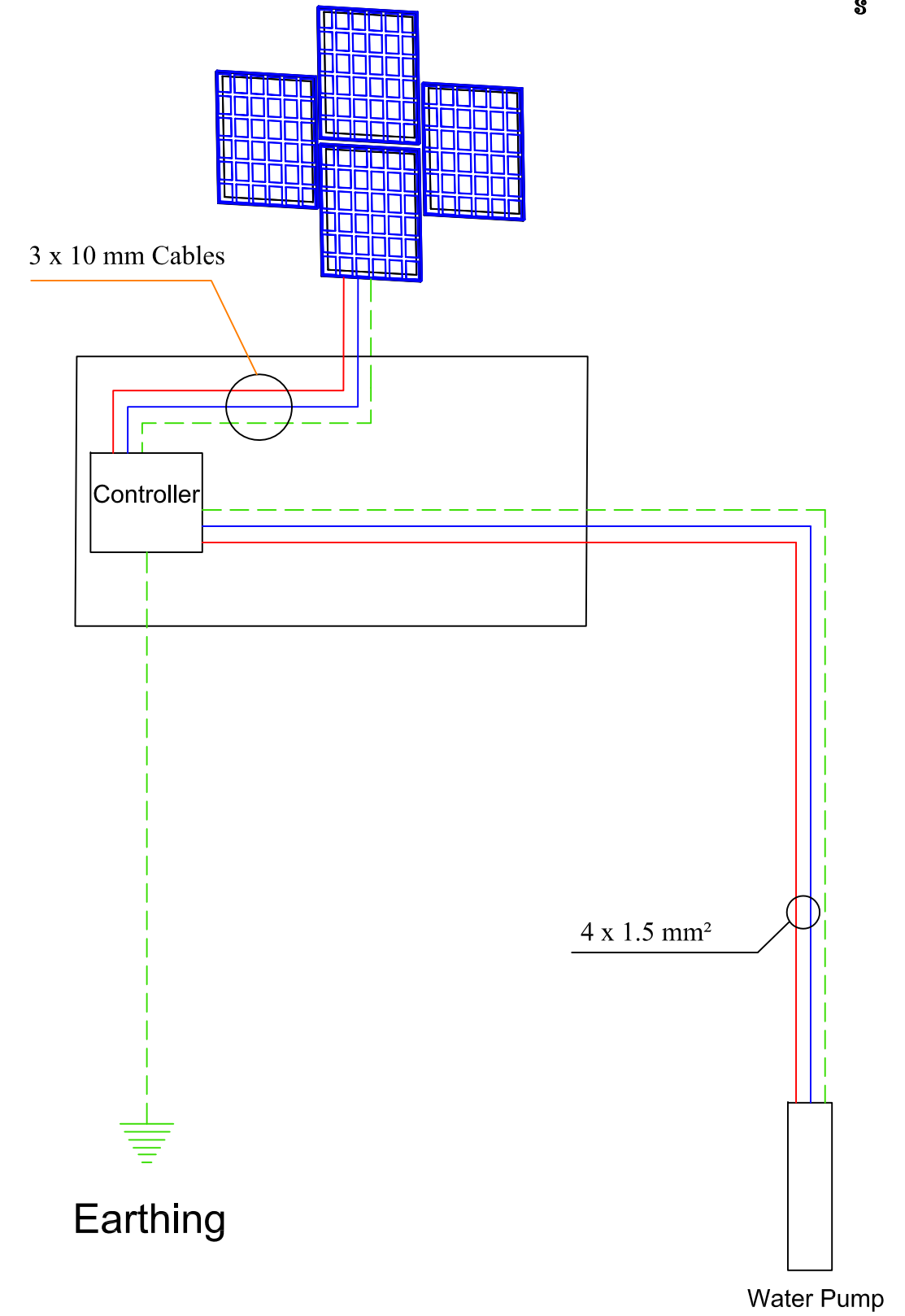


FRONT VIEW



SIDE VIEW

EARTHING BUSBAR



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D6 EARTHING & THE ELECTRIC CYCLE DETAILS



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EMERGENCY LATRINES DRAWING

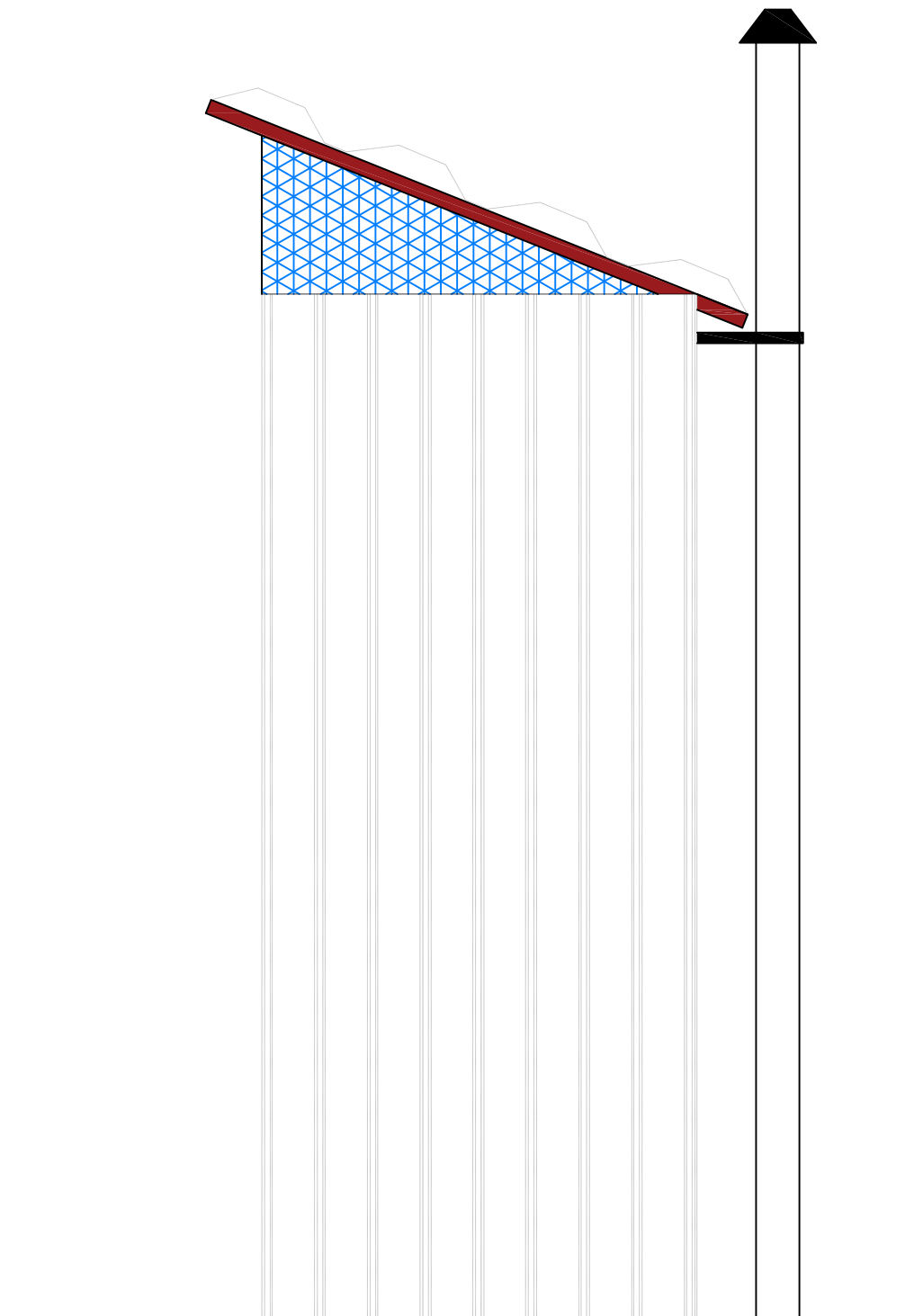
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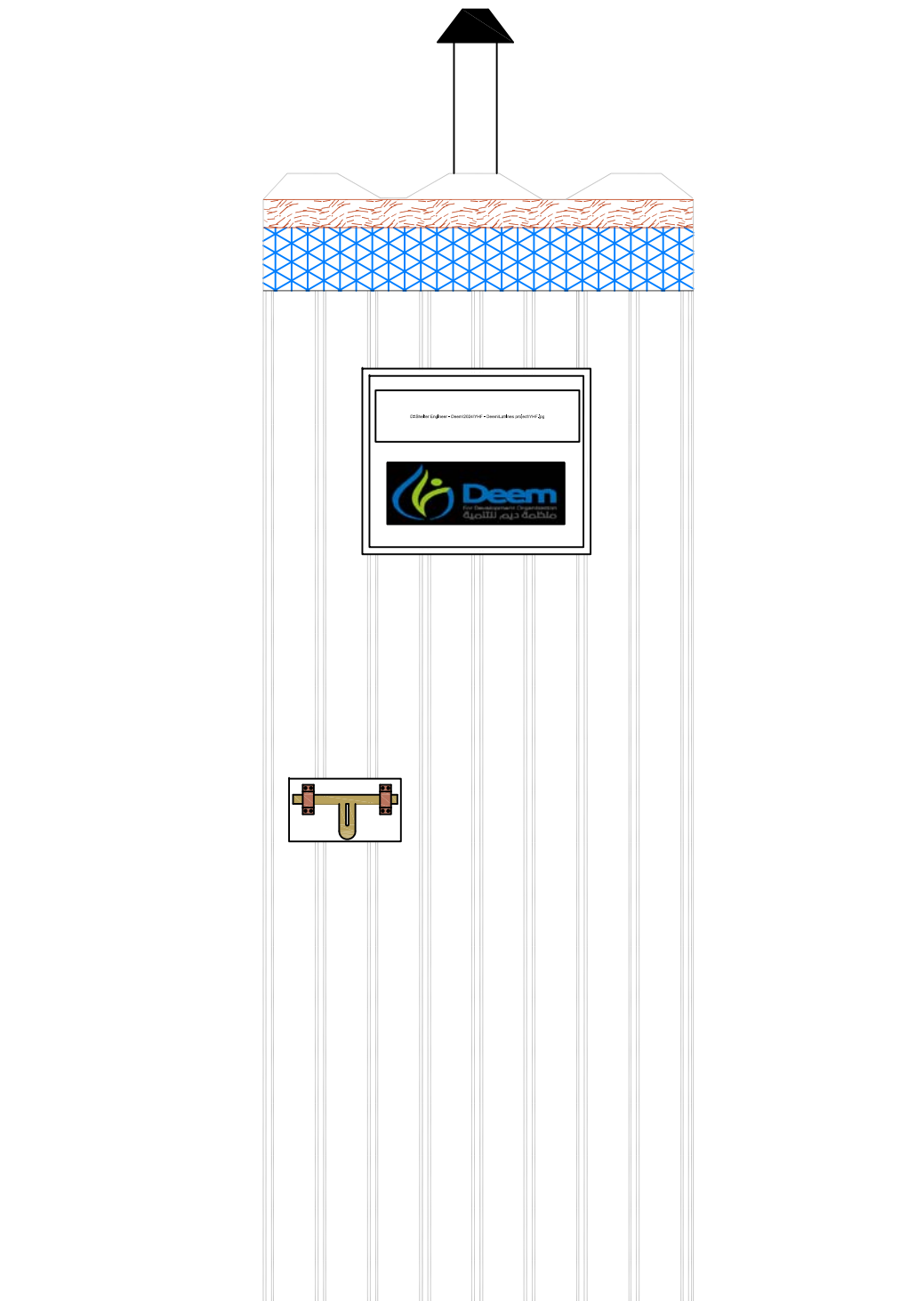
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Latrine Side View



Latrine Front View

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D-1

GENERAL VIEW



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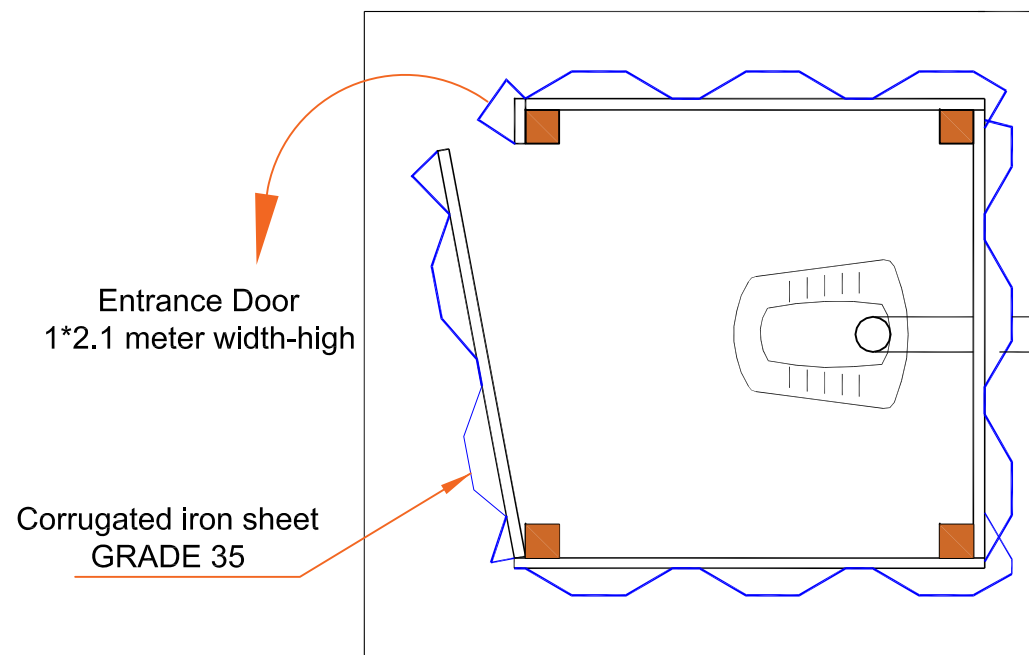
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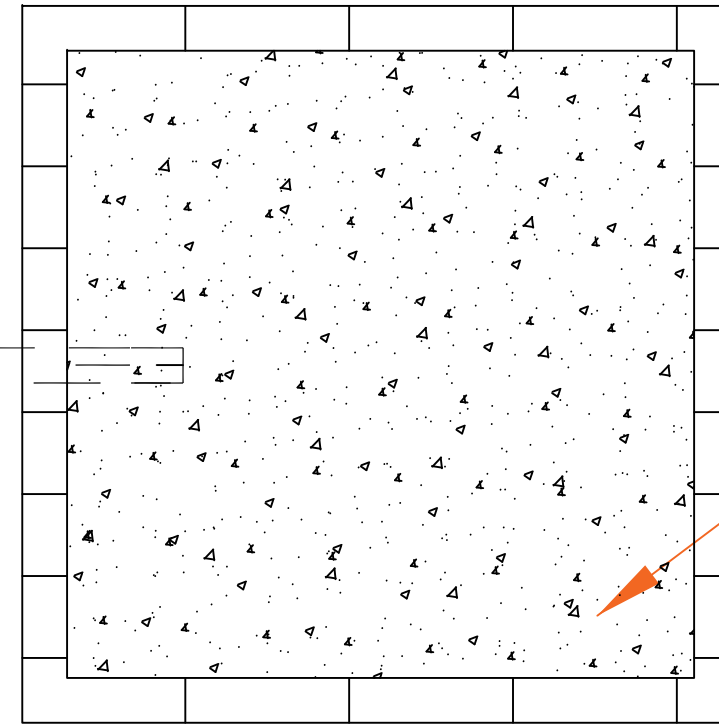
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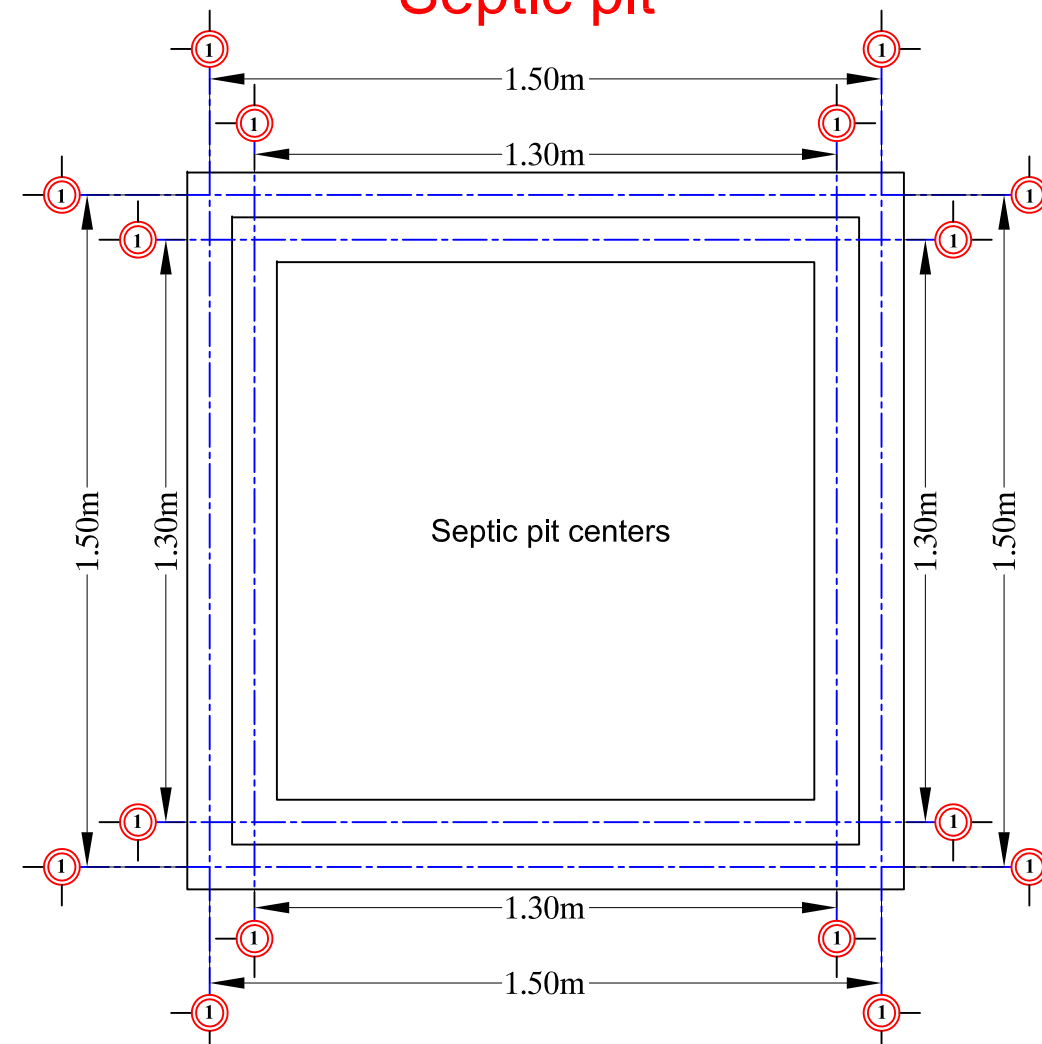
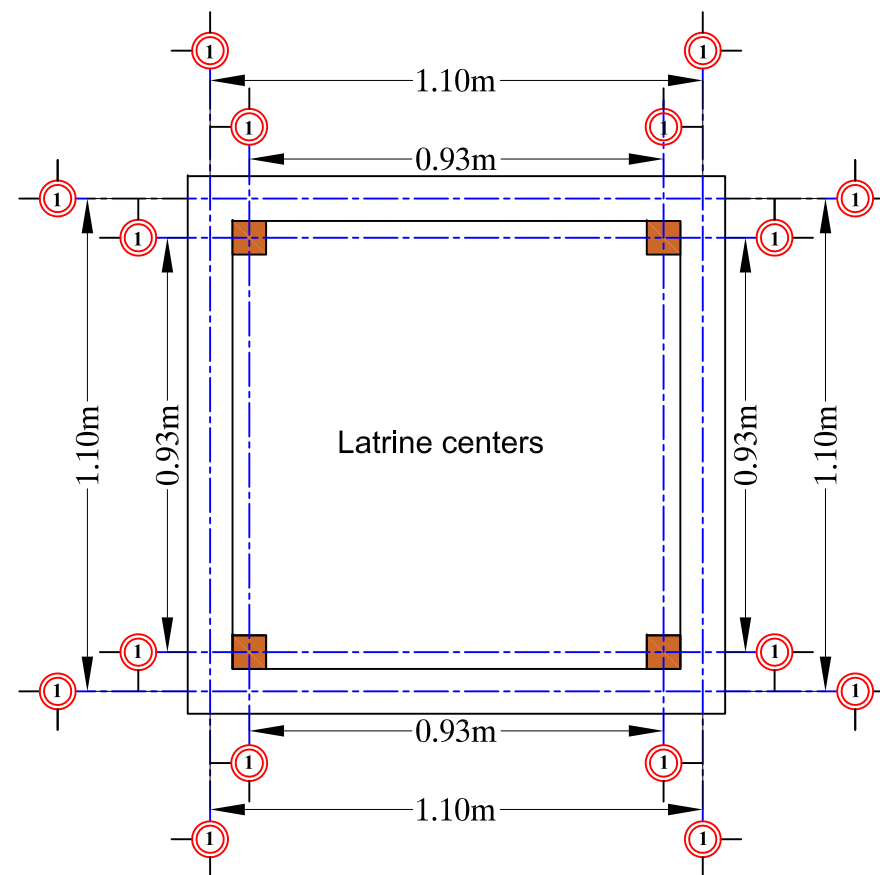
Latrine

PVC Sewer pipe
10 cm dia. and
1.5 length



Septic pit with internal
dimensions 1.2*1.2m
and 1.5 m-depth

Septic pit



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D-2

ELEVATION VIEW & CENTERS DIMENSIONS



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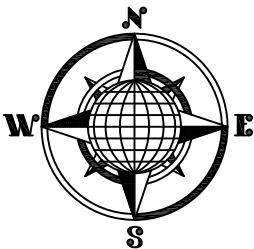
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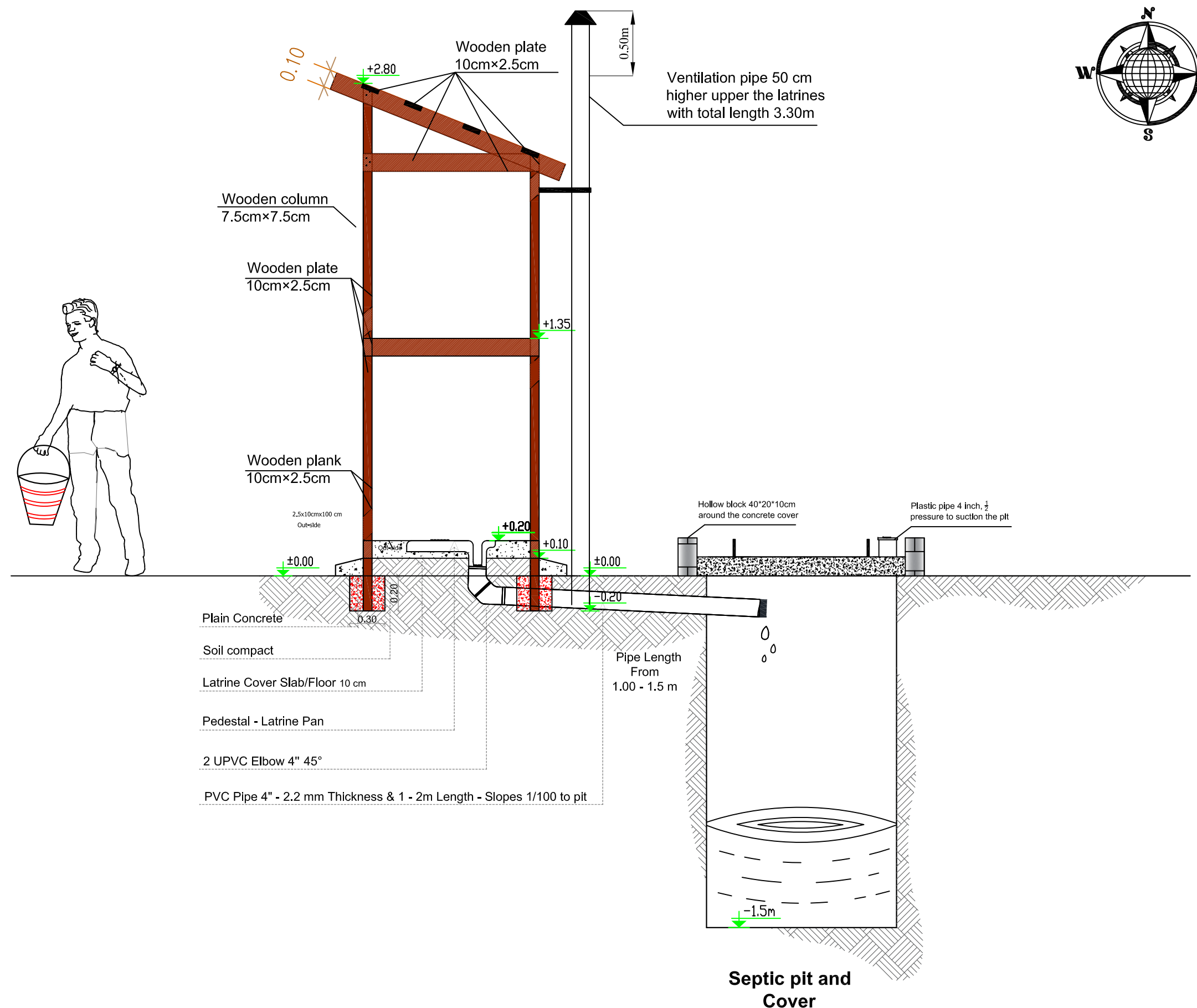
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Side Section for the latrine and the septic pit



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D-3 LATRINE & SEPTIC PIT SIDE SECTION DETAILS



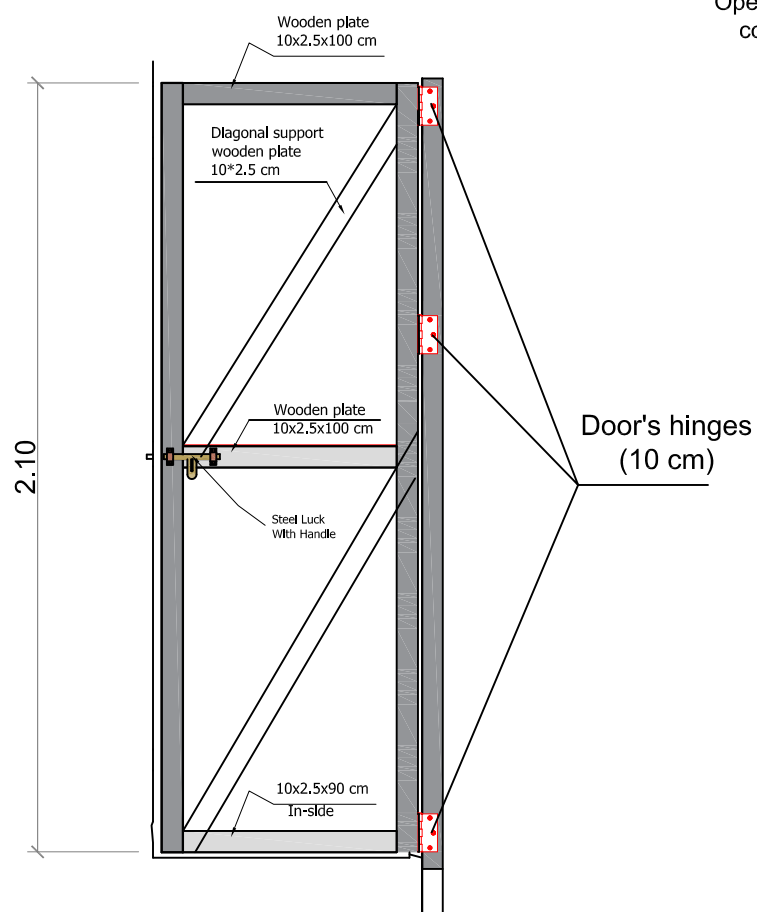
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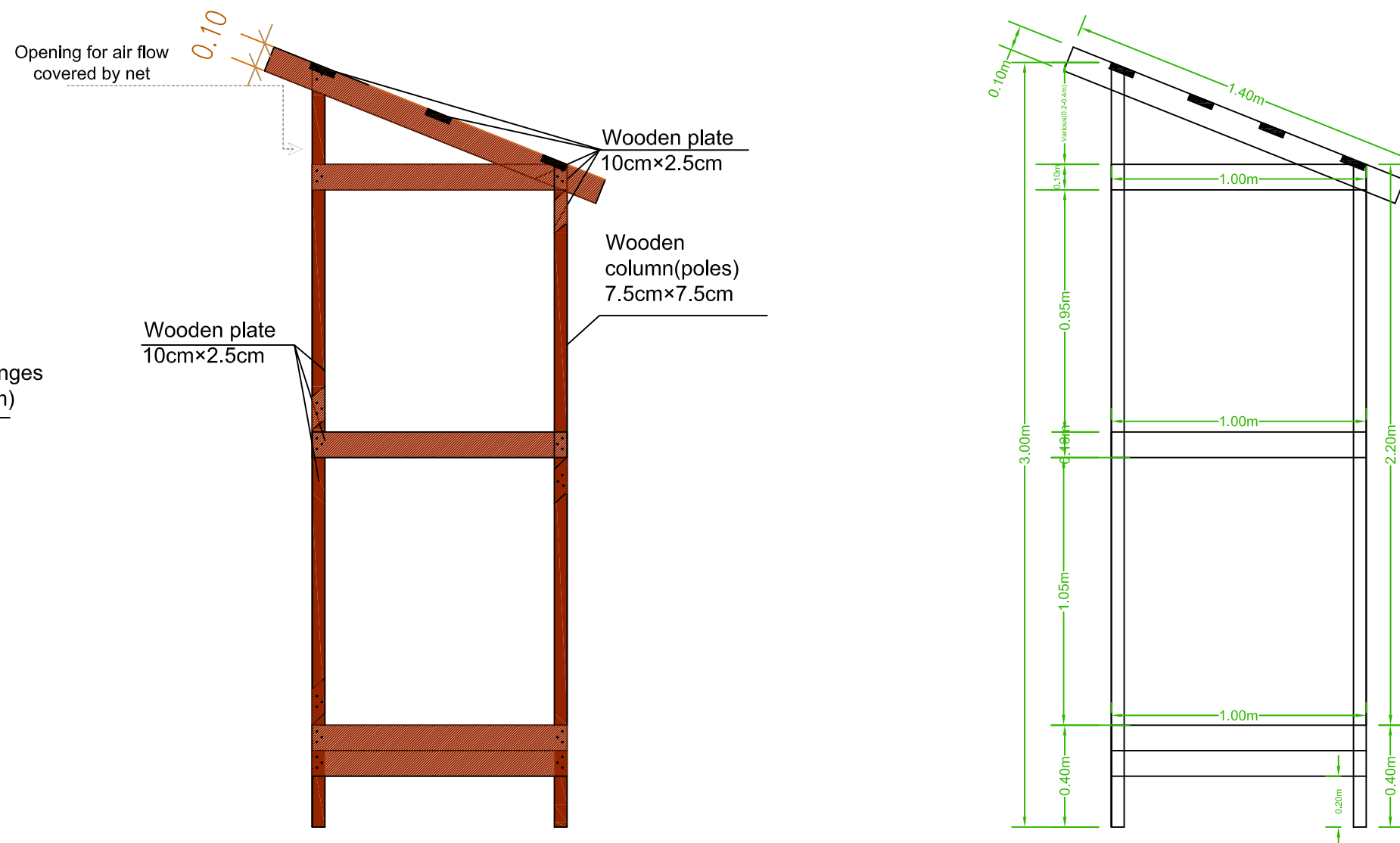
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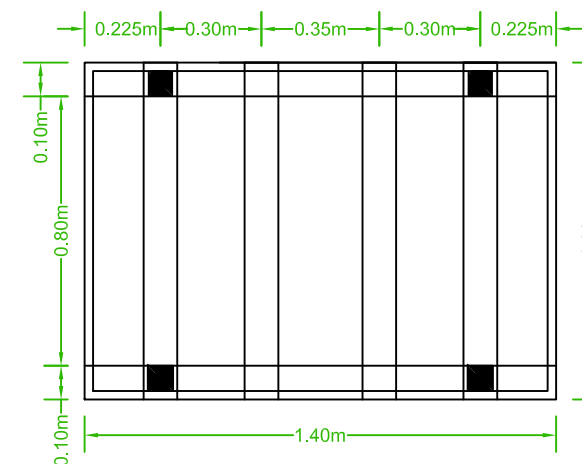
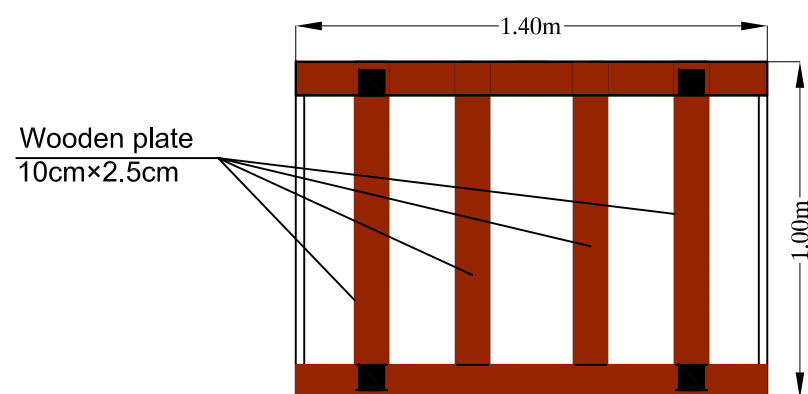
Latrine Door



Wooden Structure Dimensions



Latrine Roof Details



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WOODEN STRUCTURE DETAILS



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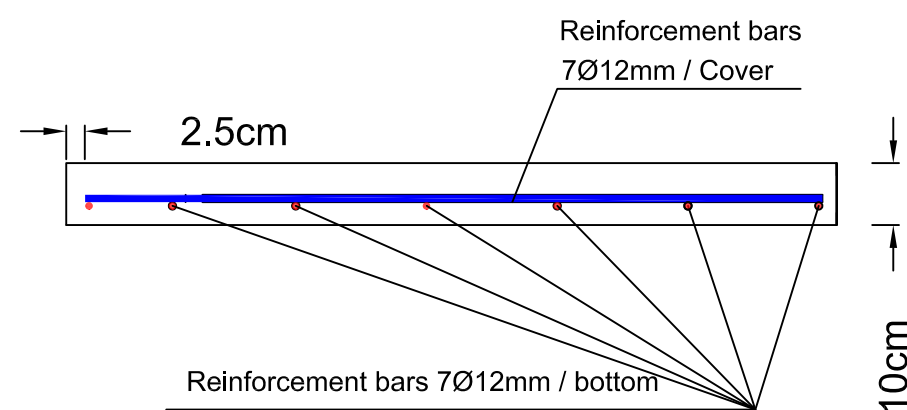
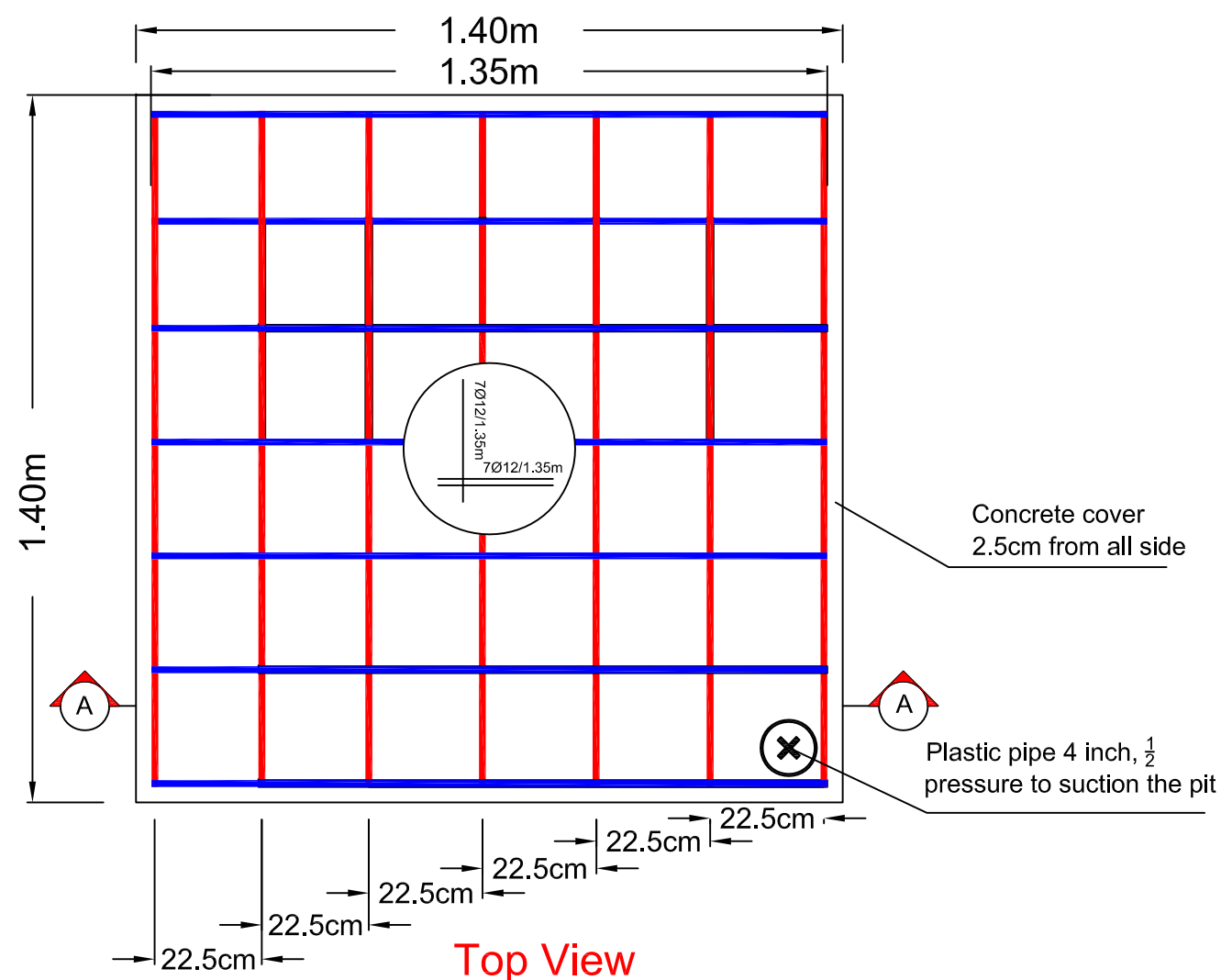
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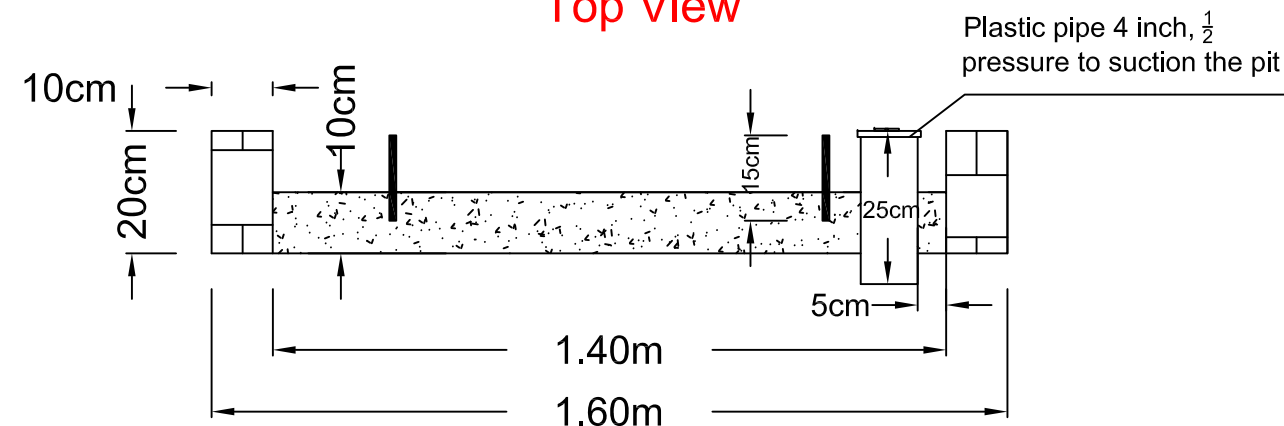
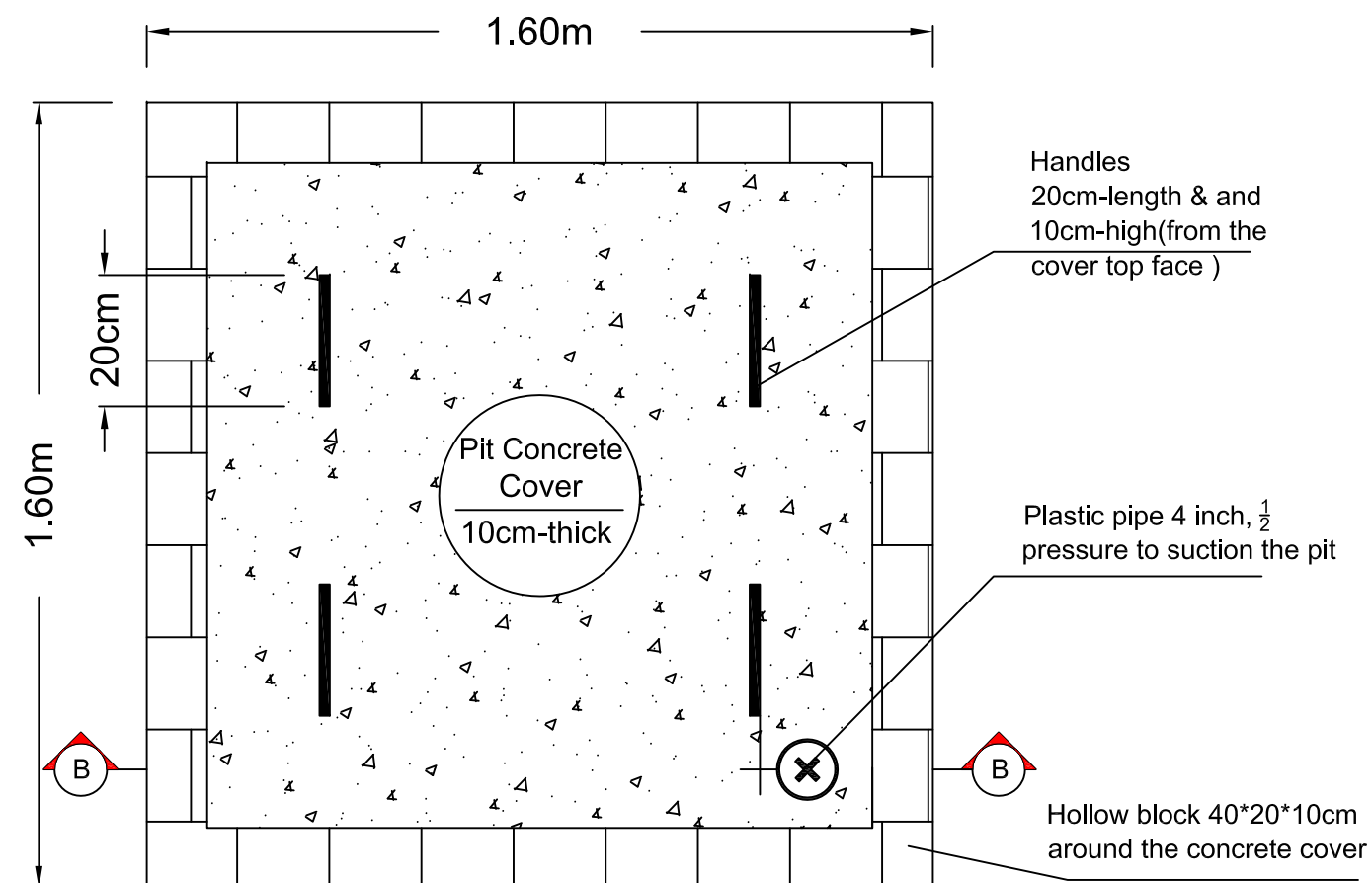
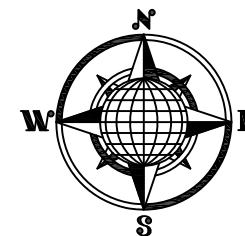
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Concrete Cover Reinforcement Details



Section
A-A

Concrete Cover & Block Raw Details



Section
B-B

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SEPTIC PIT COVER DETAILS



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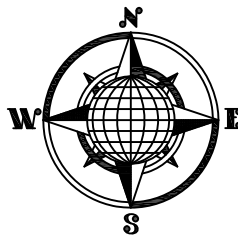
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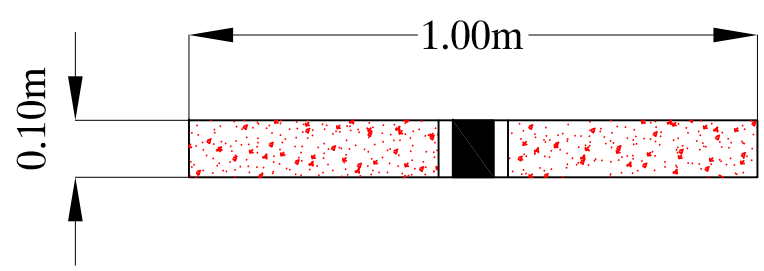
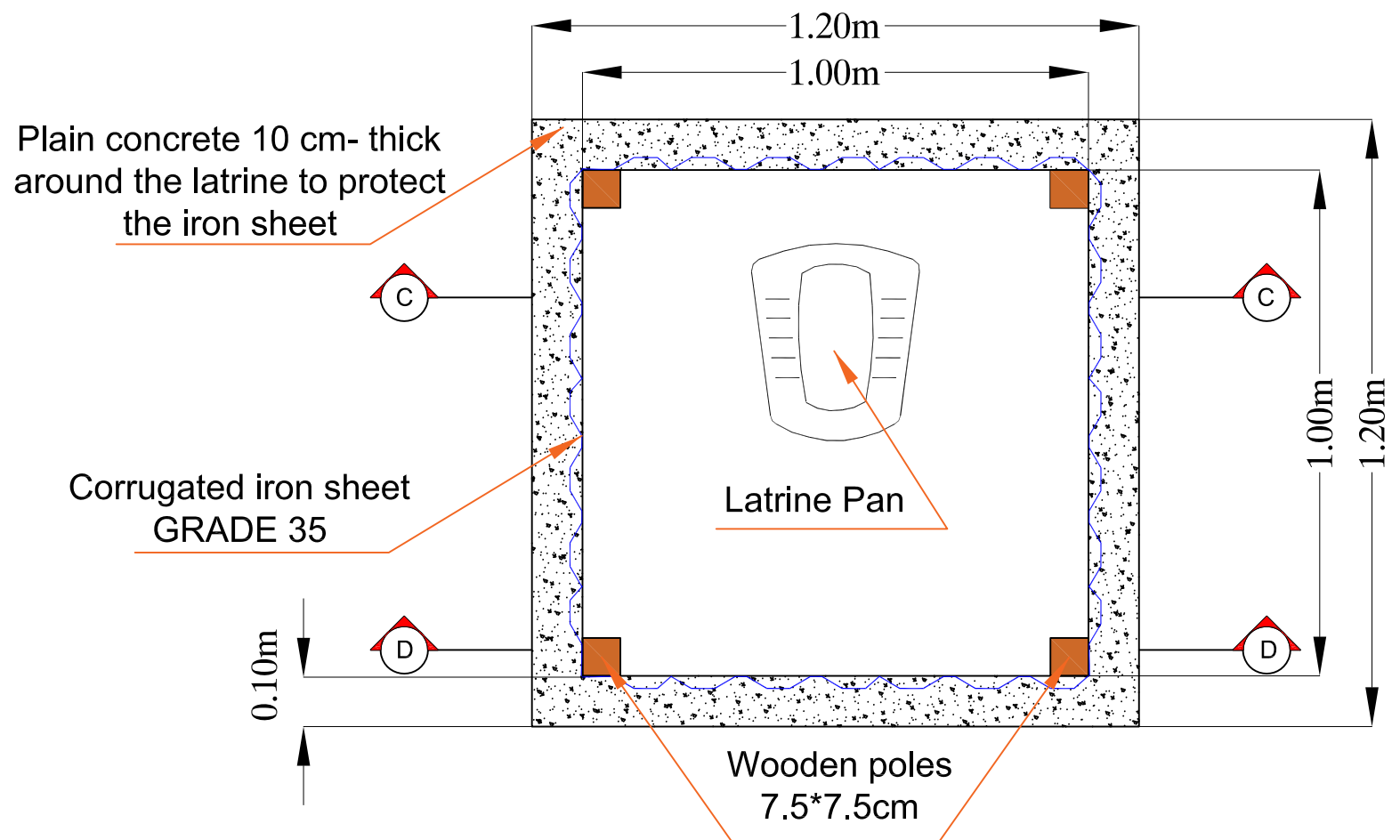
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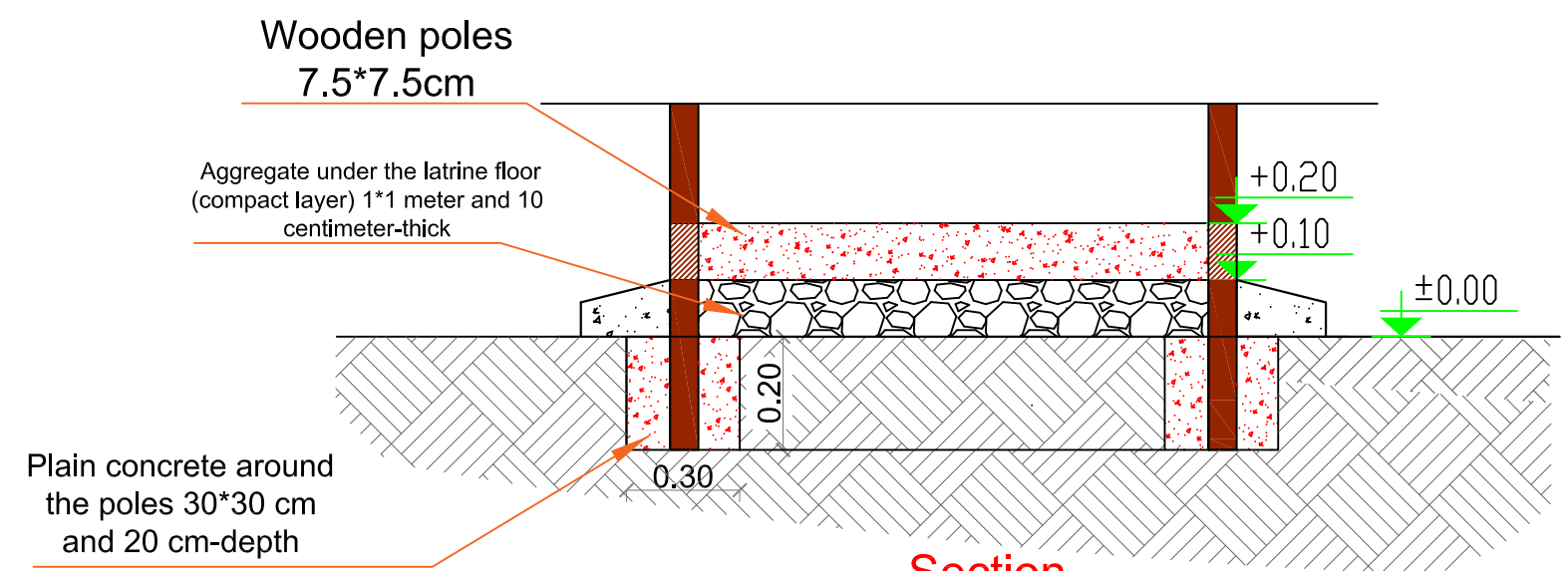
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Latrine top view



Section A-A



Section A-A

SOLAR LAMP DRAWING

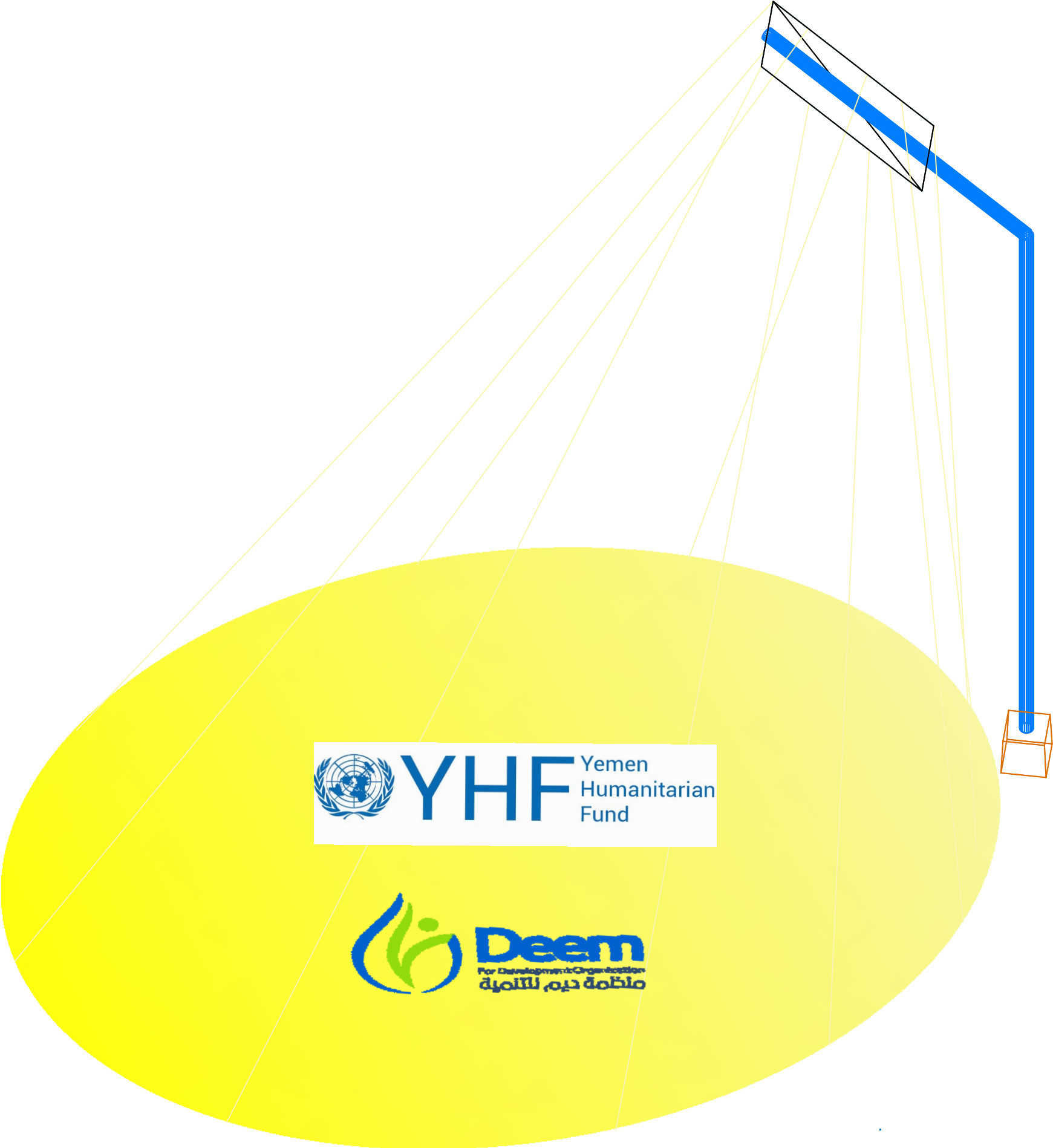
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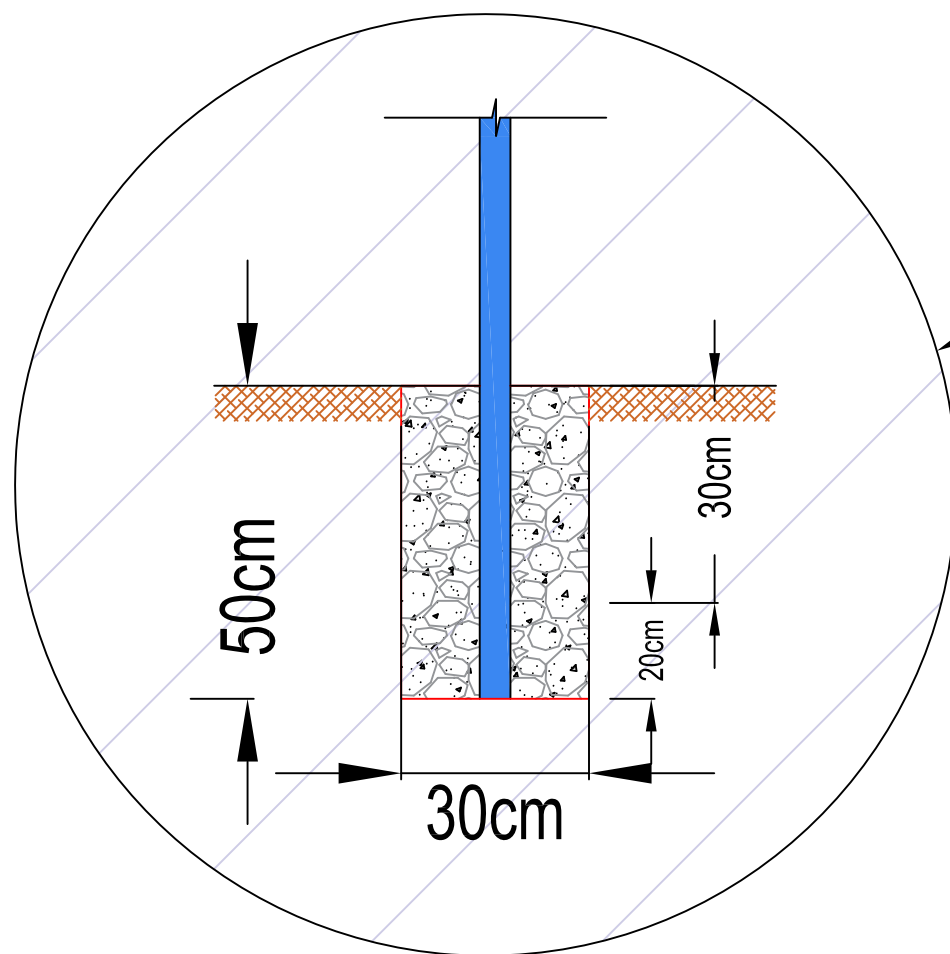
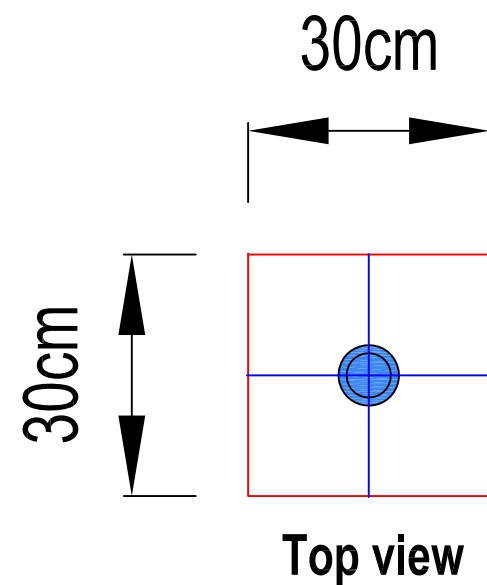
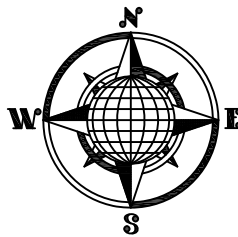
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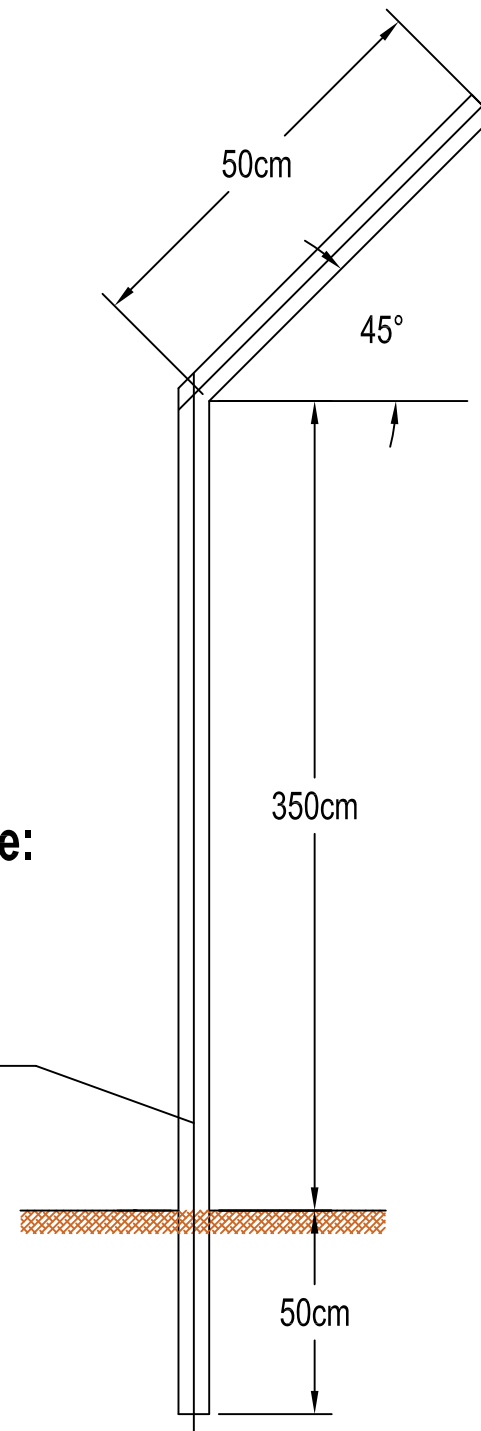




Section A-A



Galvanized iron pipe:
- Dia. 2.5 in
- Thickness 2.5 mm



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SOLAR LIGHTING



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WATER POINT DRAWING

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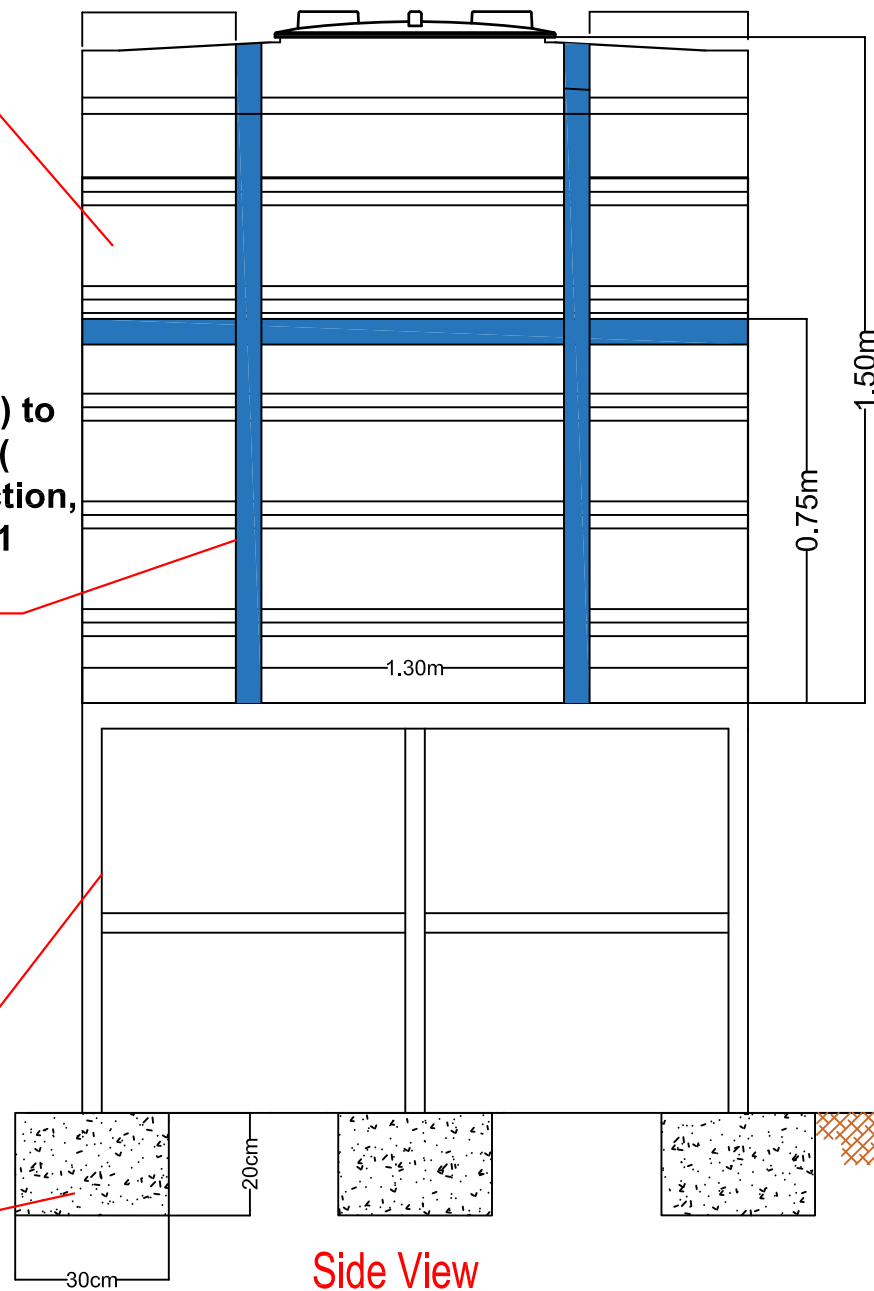


Plastic water tank 2000 L, 3 layers

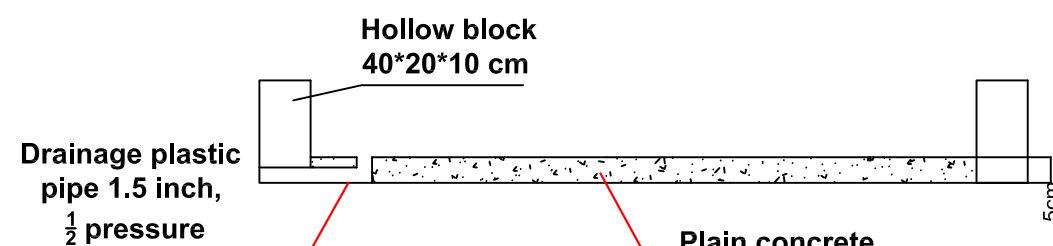
Belt (iron frame) to fixed the tanks (rectangular-section, width 1.5 inch, 1 mm-thick)

Iron tank's base

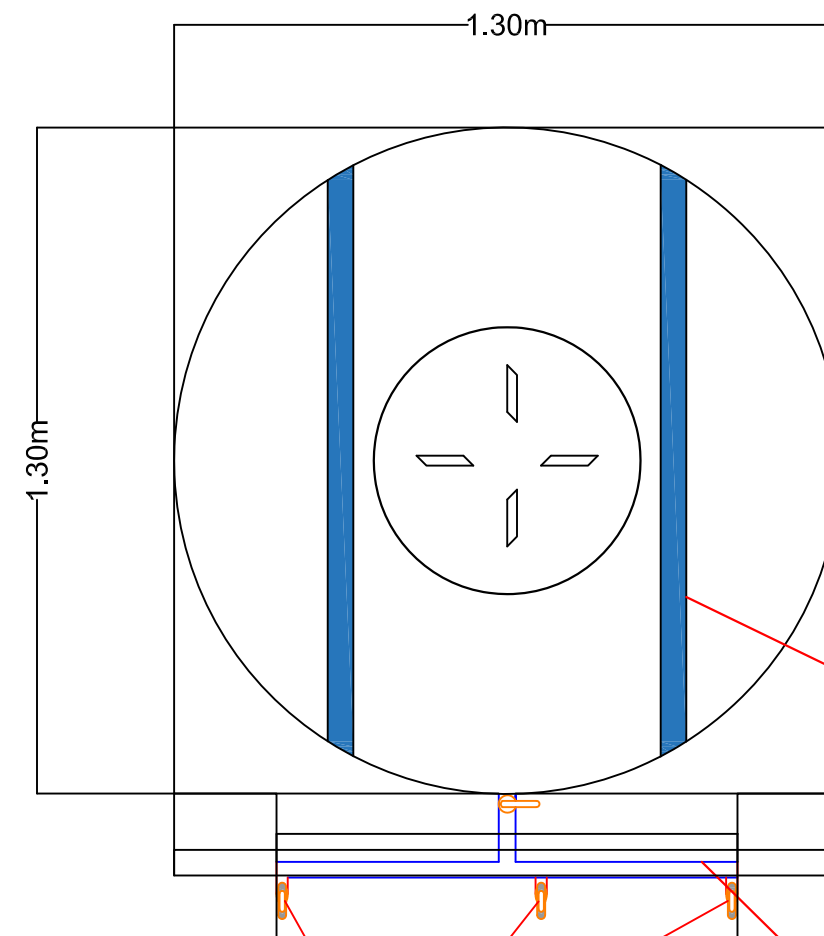
Plain concrete



Side View



Water Filling Basin Front View

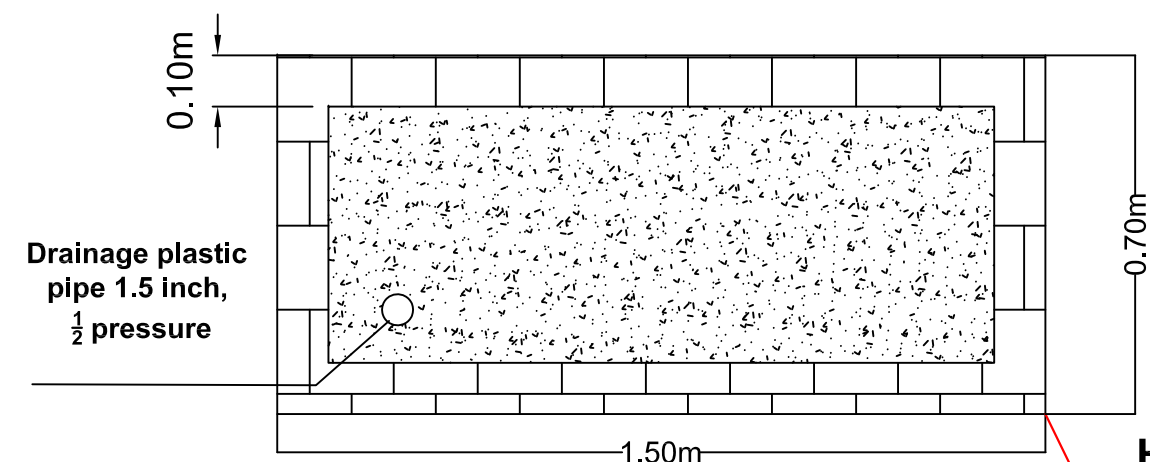


Belt (iron frame) to fixed the tanks (rectangular-section, width 1.5 inch, 1 mm-thick)

Water tap $\frac{3}{4}$ "

Top View

PVC pipe $\frac{3}{4}$ "



Water Filling Basin Top View

Hollow block 40*20*10 cm

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WATER TANKS DETAILS



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Project Engineer

Date

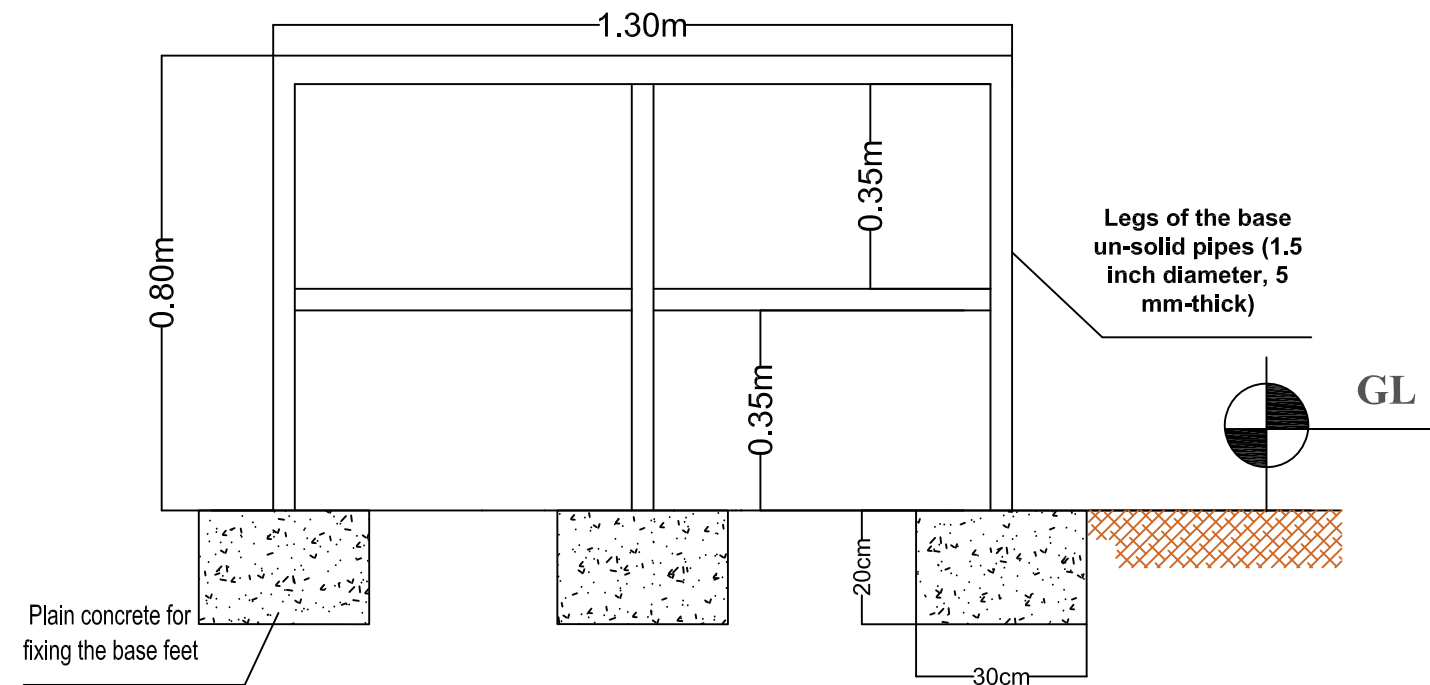
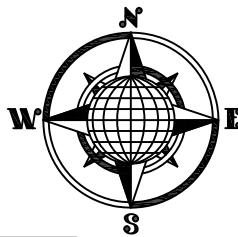
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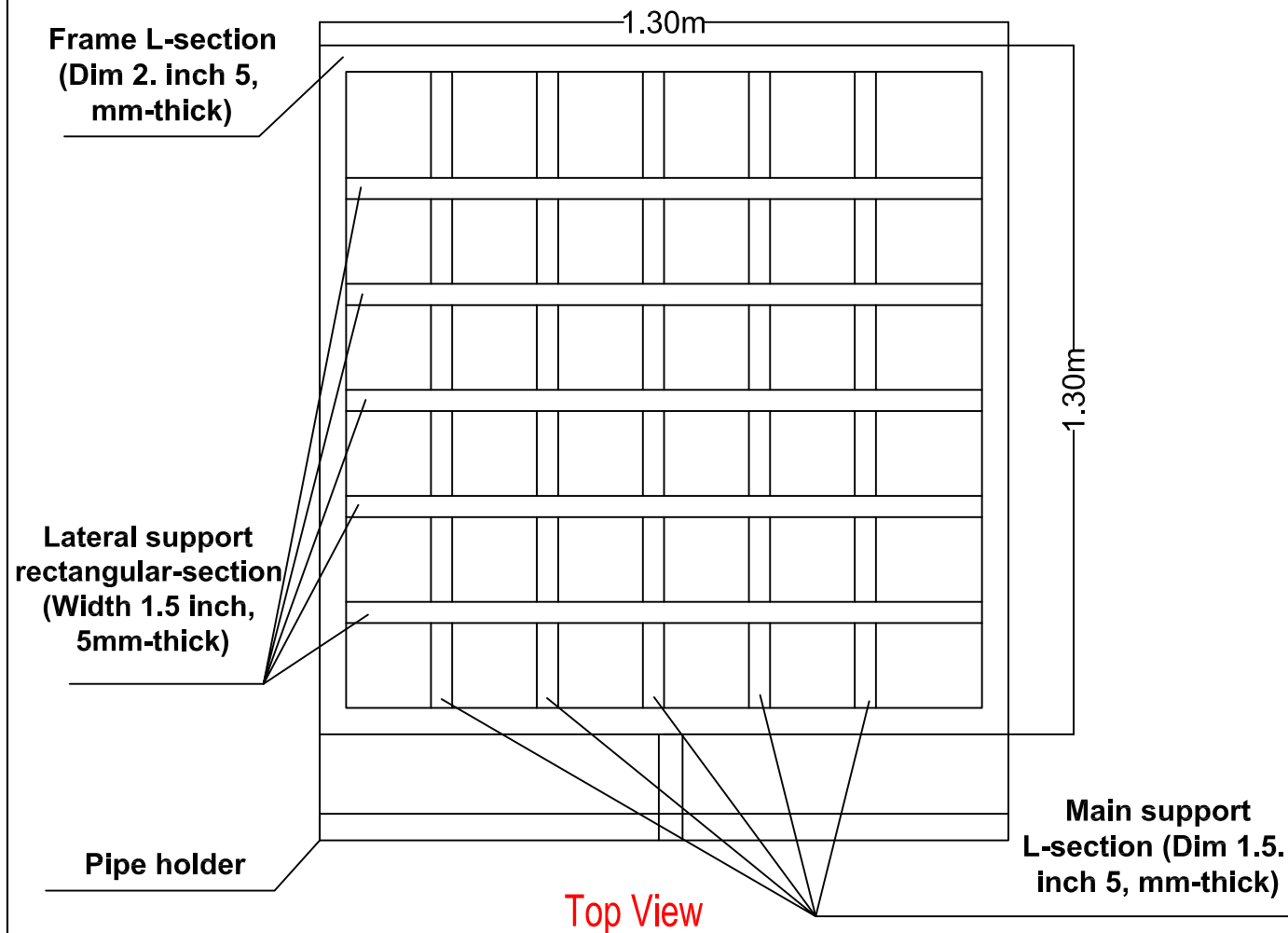
PROJECT

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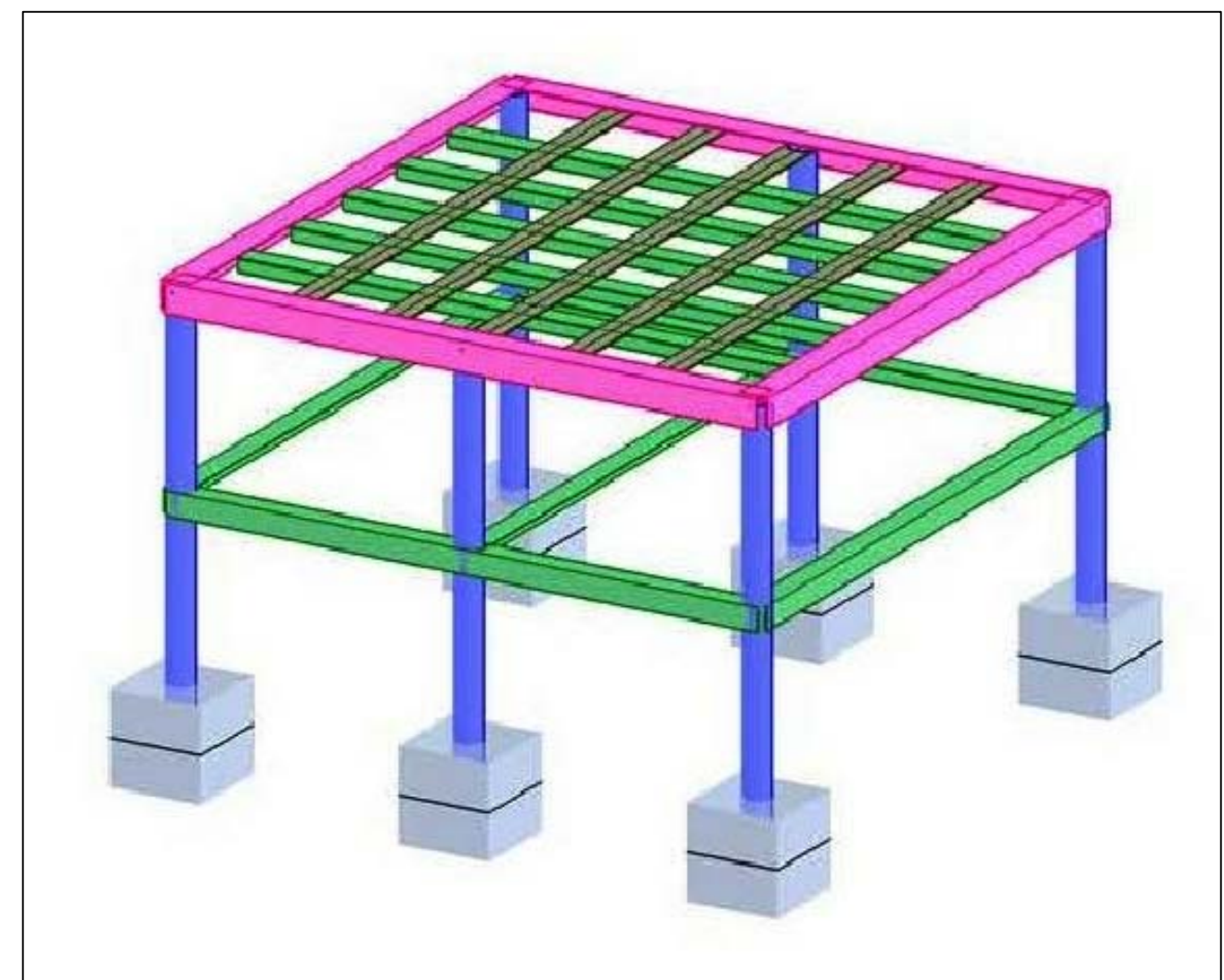
AL KHUKHAH DISTRICT AL HODEIDAH GOV. - YEMEN



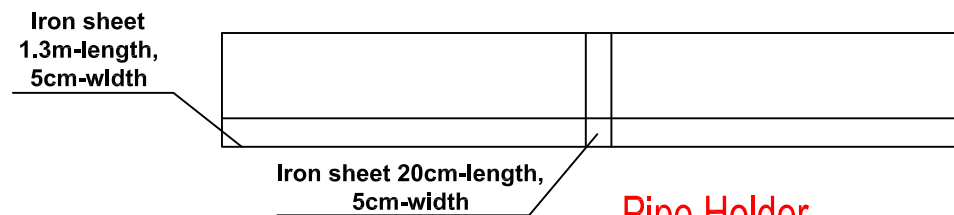
Side View



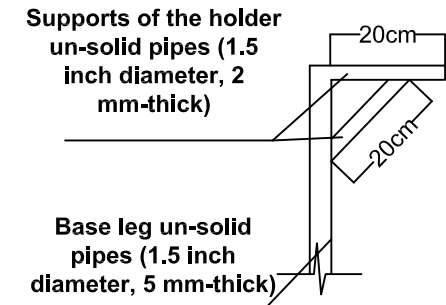
Top View



3D Model



Pipe Holder Top View



Pipe Holder Side View

PROJECT NO. 1

DEEM - CCCM

APRIL 2025

PREPARED BY

D2

STEEL BASE DETAILS



FUNDED BY



Legend :		
Designed & Drawing by:		Date
Project Engineer		
Checked		
Approve		

PROJECT	SITE MAINTENANCE PROJECTS	
	AL KHUKHAH DISTRICT AL HODEIDAH GOV. - YEMEN	

END