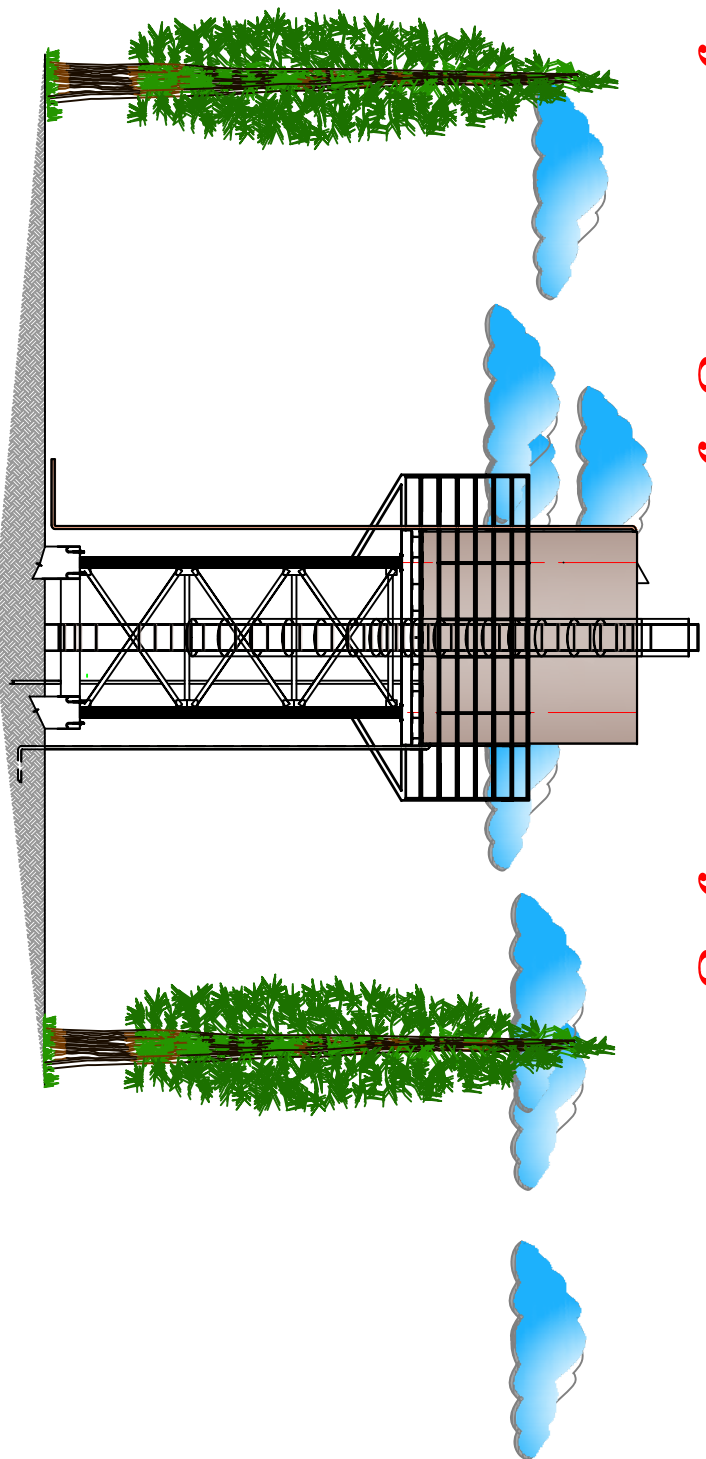
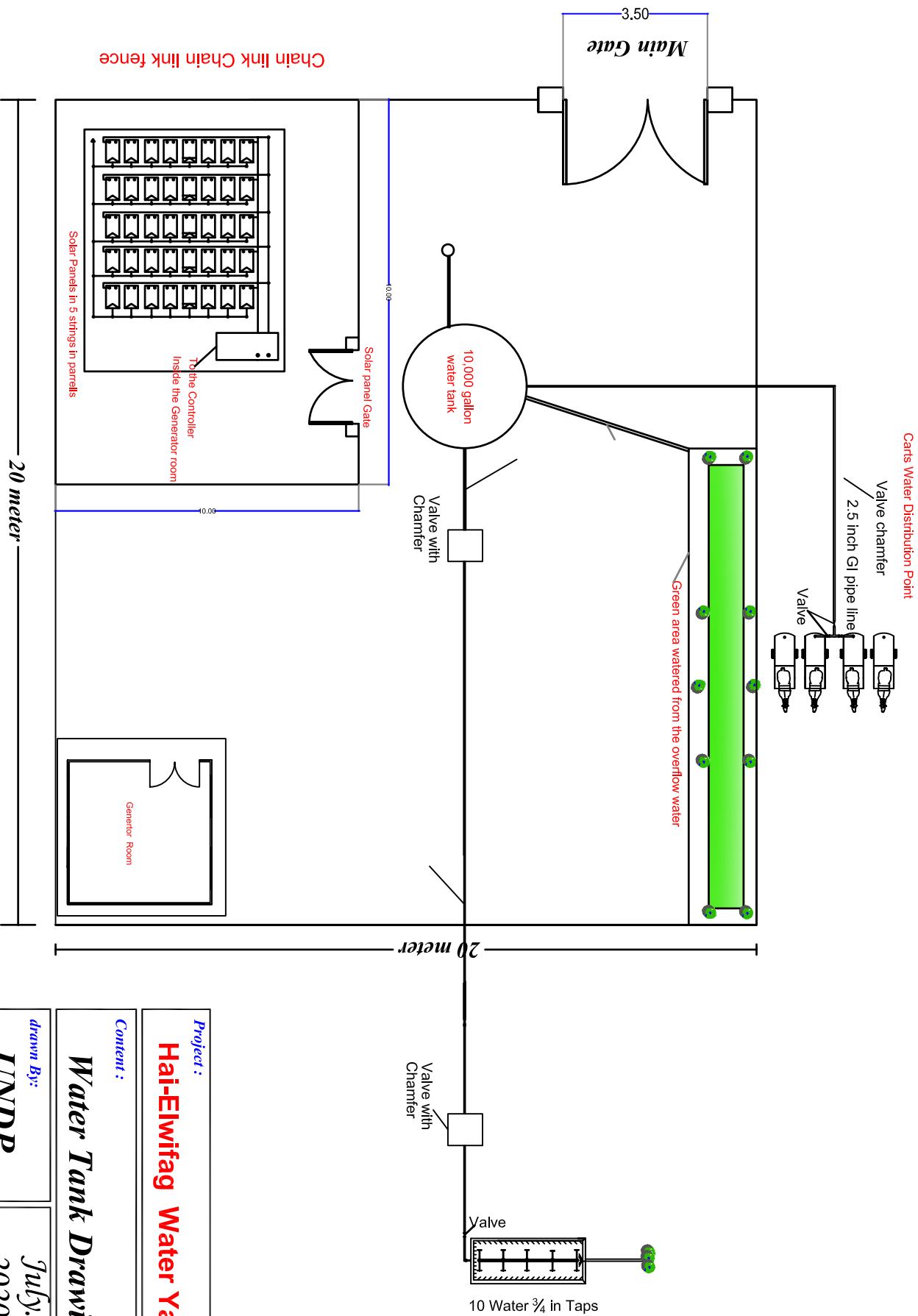


# *Set of Drawings for Hai-Elwifag Water Yard*



*Hai-Elwifag-Damazin Locality-Blue Nile State*



**Project :**

**Hai-Elwifag Water Yard- Blue Nile**

**Content :**

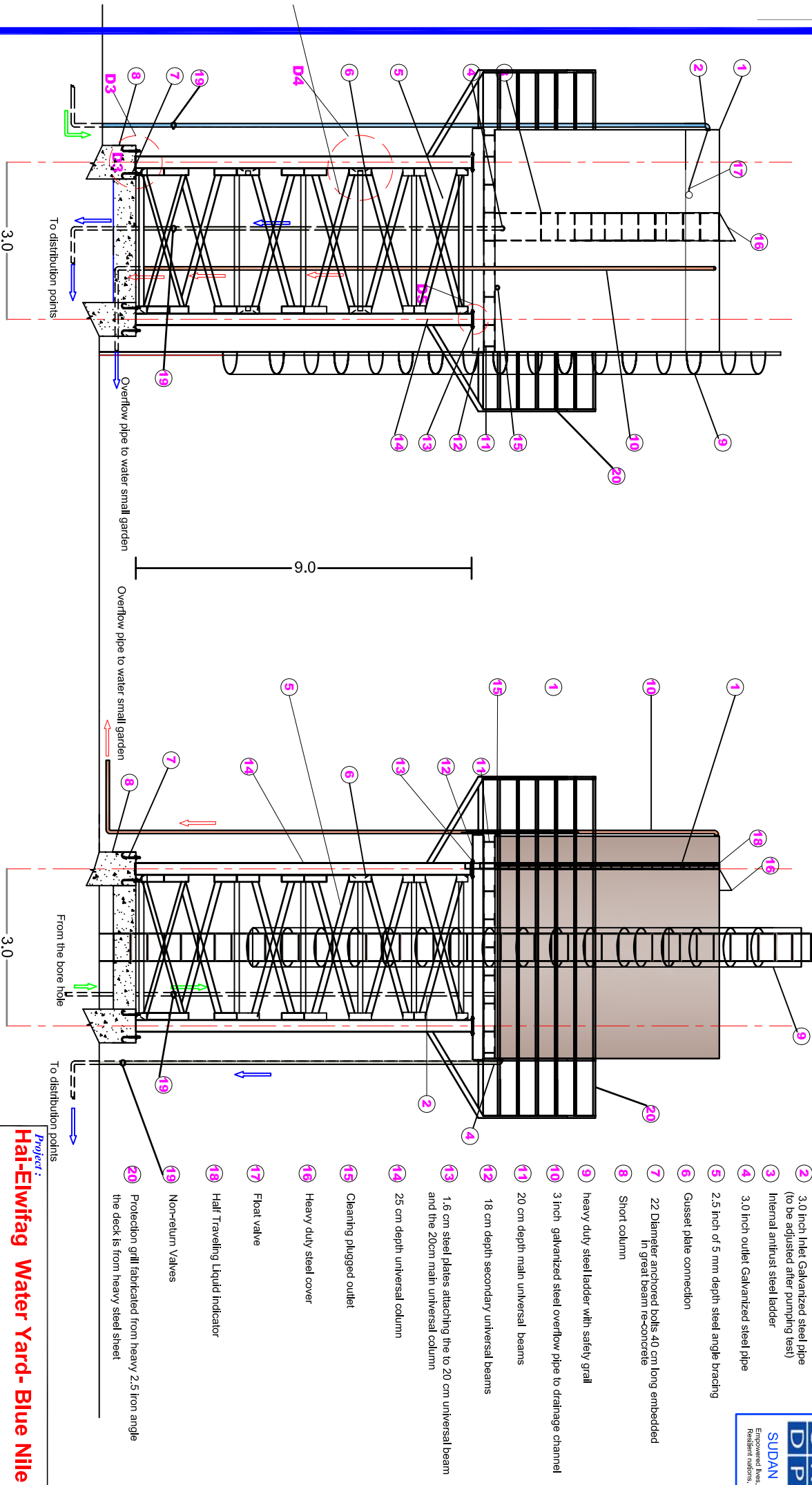
**Water Tank Drawings**

**drawn By:**

**UNDP**

**July.  
2020**

**01**



**NOTES**  
All steel works of the water tank should meet  
The technical standard and requirement of National Water Corporation

Content :

**Water Tank Drawings**

drawn By:

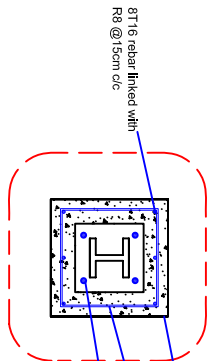
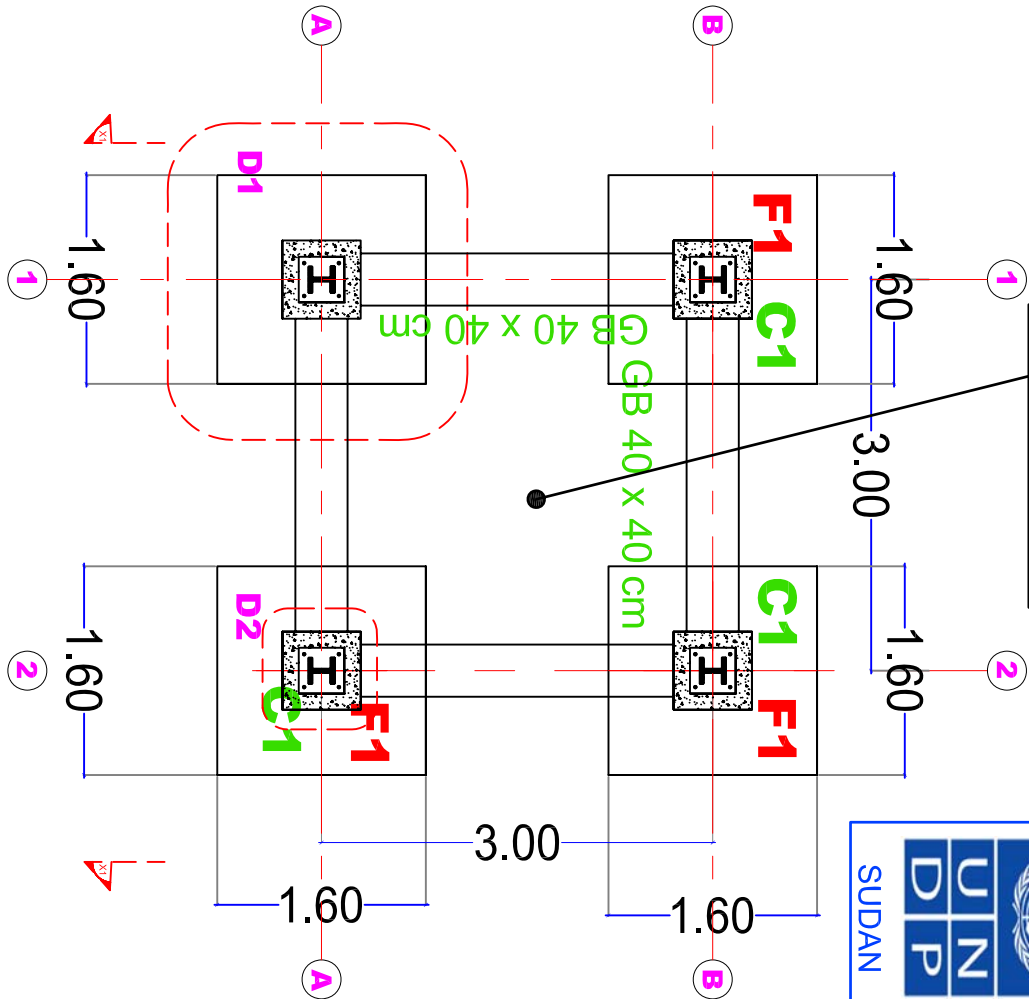
**UNDP**

July  
2020

**02**

Project : **Hal-Elwifag Water Yard- Blue Nile**

The area enclosed by the great beams shall be filled with bedding soil properly compacted and covered with 10 cm plain concrete



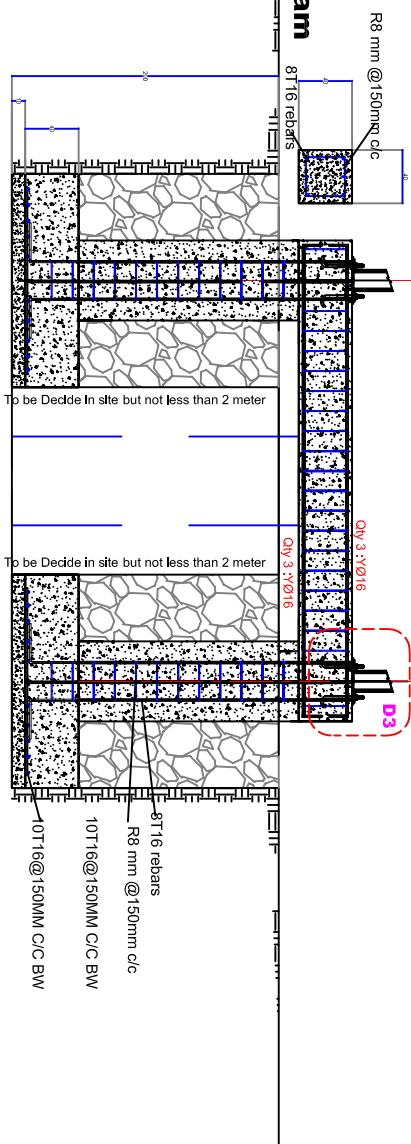
8T16 rebar linked with  
R8 @15cm c/c

60cm 50cm short column

R8 mm rebar lins@15cm c/c  
22 mm diameter anchored bolts 40 cm long  
embedded in the concrete 1:2:4 mix

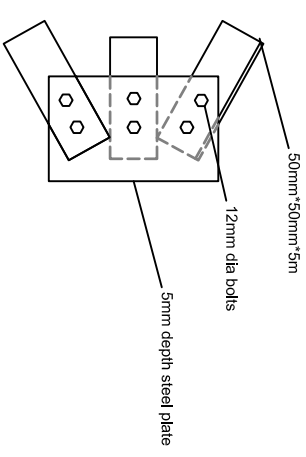
**DETAIL D2**

## Grade Beam



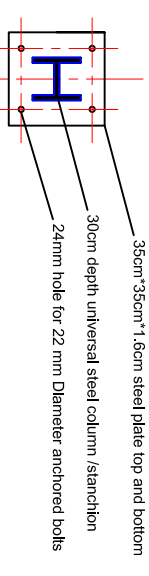
### DETAIL D4

### **Connection plate**

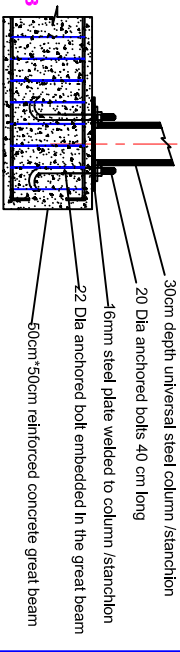


### DETAIL D3

## **FOOT PLATE PLAN**

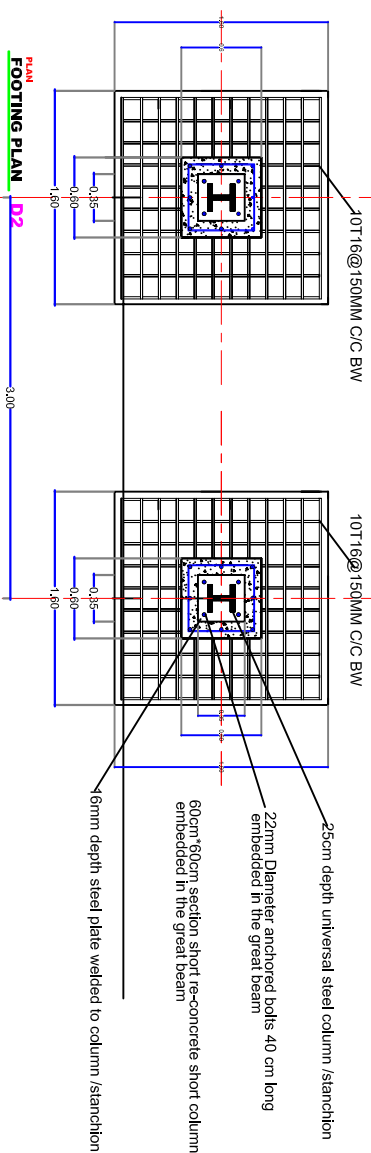


### DETAIL D3



## DETAIL

## UNIVERSAL COLUMN ATTACHED TO GREAT BEAM



## PLAN FOOTING PLAN D2

## NOTES

All dimension in centimeter unless otherwise mentioned  
The area enclosed by the great beam shall be filled with  
backing soil properly compacted and covered with 10 cm plain concrete

**Project :**  
**Hai-Elwifag Water Yard- Blue Nile State**

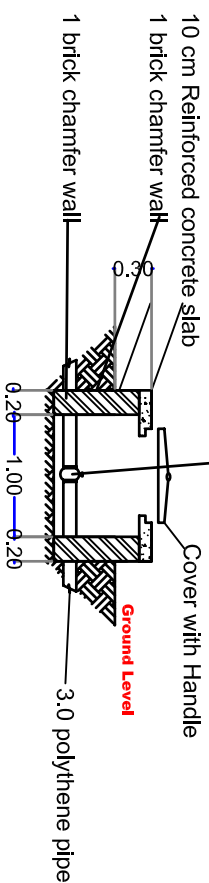
**Content:**

## Tank foundation drawings

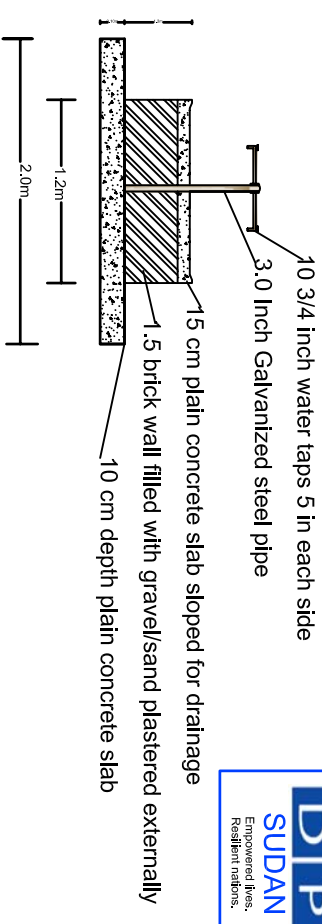
*drawn By:*

UNDP  
2020

Gate Valve @500 meter from the water tank

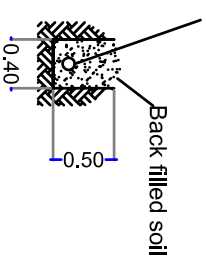


### 1.2m\*1.2m Gate valve chamfer

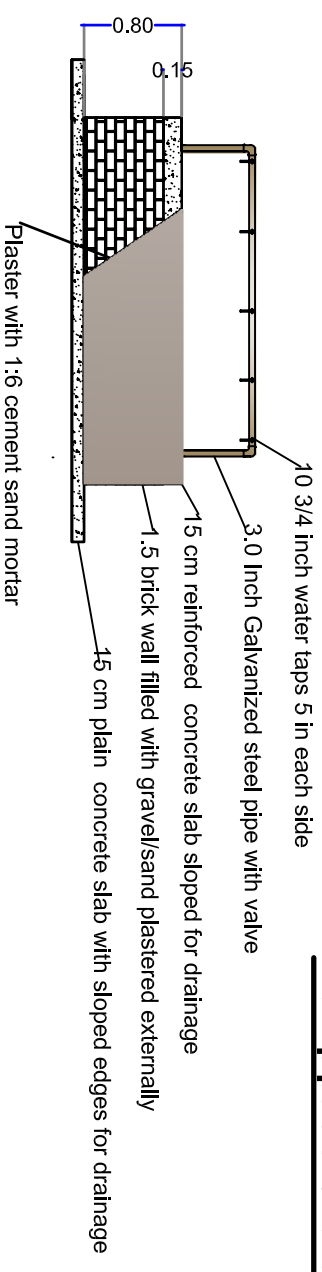


### WATER POINT SECTIONAL VIEW

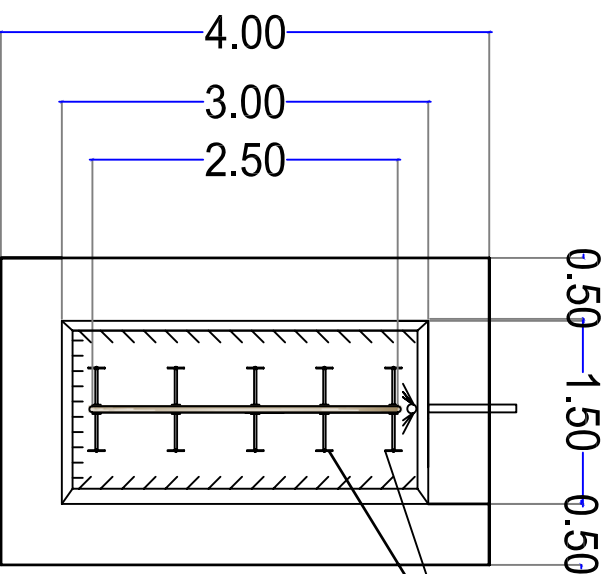
3.0 inch High Density polythene pipe (HDPE)



### Main pipe trench and pipe



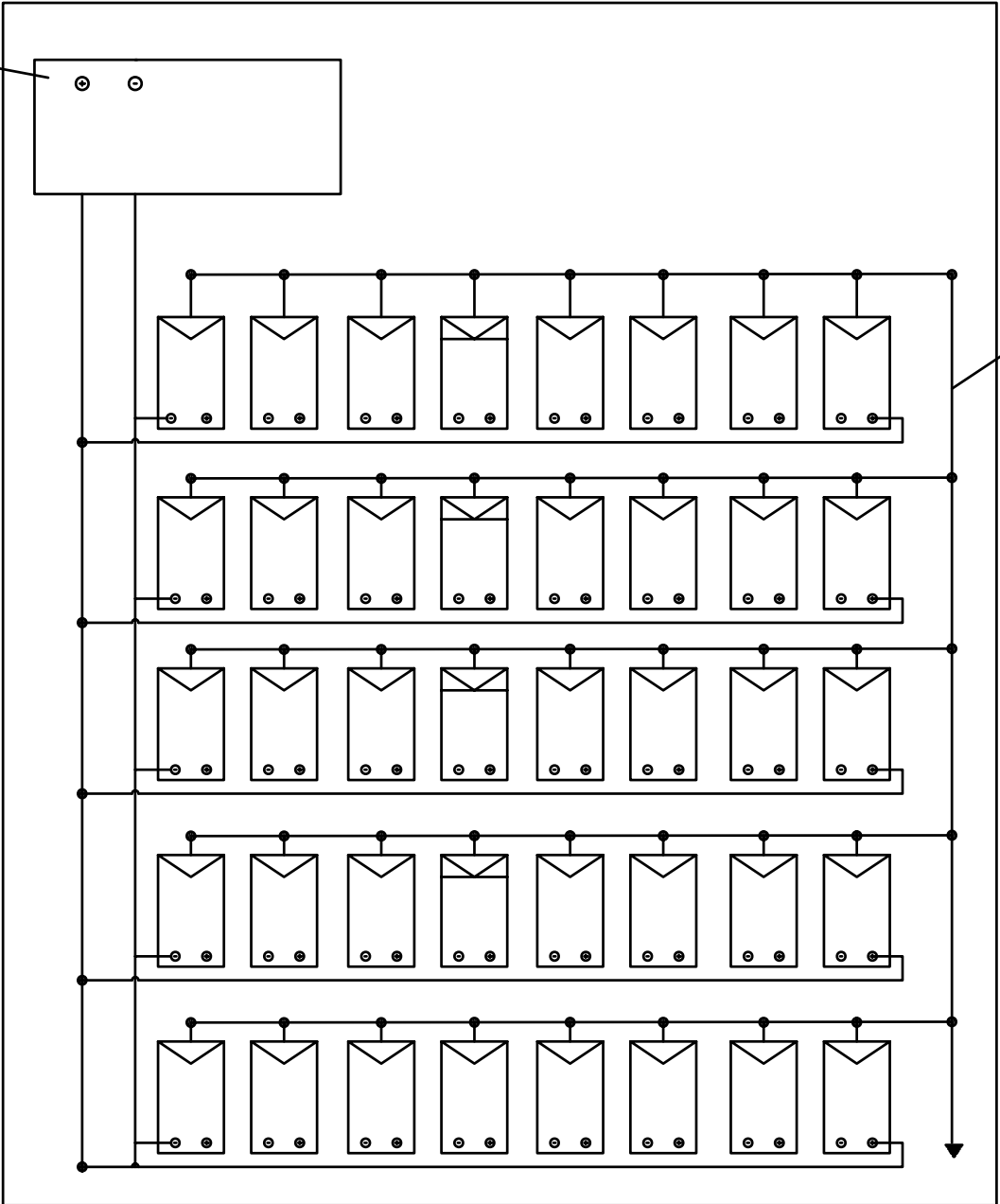
### WATER POINT PLAN VIEW



### WATER POINT SECTIONAL VIEW

# Solar Panels in 5 strings in parrells

Controller



## Note:

- The solar cell shall be mounted on galvanized stands
- The total output of the solar cells shall decided after pumping test but should not be less 8.0 KVA
- The solar stands shall be fixed with plain concrete footings
- The solar cell be properly installed to manufacturers directions
- All electrical cables shall be through electrical pipes protected and trenched
- Bidder quoting for different arrangement or design has to state so and should provide all necessary information for evaluation



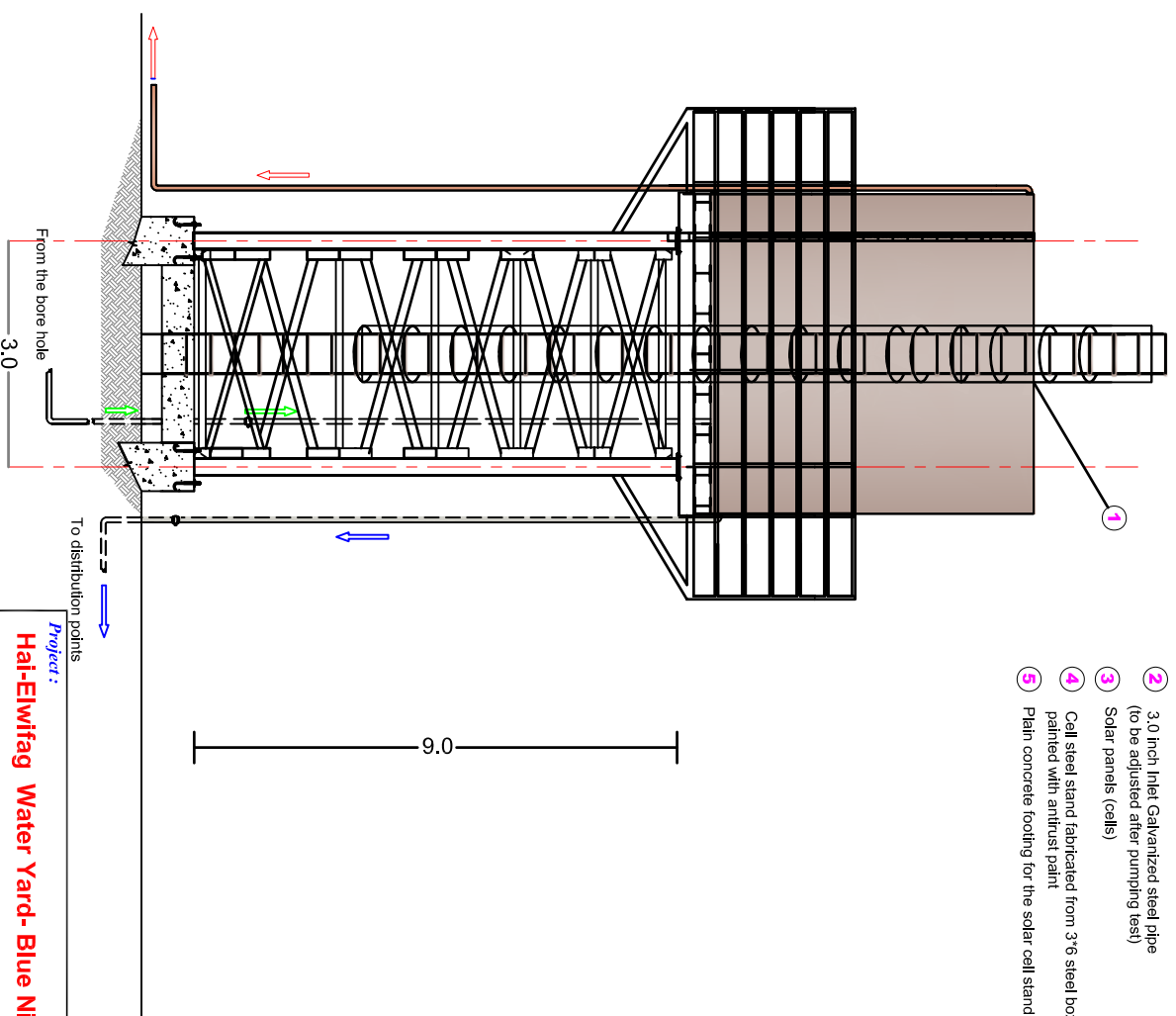
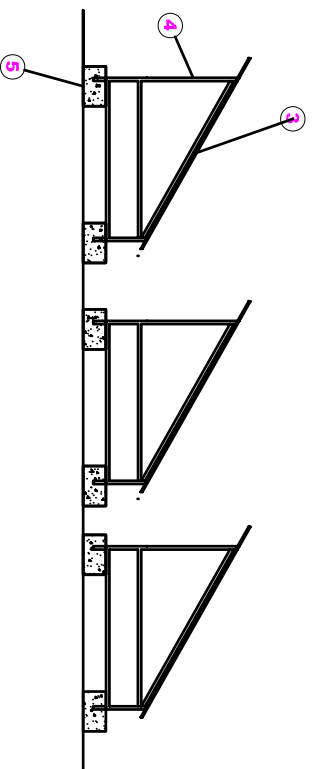
Project : **Ha-Elwitaq Water Yard- Blue Nile State**

Contenu :

**Solar Cells Wiring**

drawn By: **Ahmed.M.Adam** July 2020

- The solar cell shall be mounted on steel / aluminum stands
- The total output of the solar cells shall decided after pumping test but should not be less 5.0 KVA
- The solar cell be properly installed to manufacturers directions
- All electrical cables shall be through electrical pipes protected and trenched



- 1 10,000 gallon heavy duty water tank
- 2 3.0 inch Inlet Galvanized steel pipe (to be adjusted after pumping test)
- 3 Solar panels (cells)
- 4 Cell steel stand fabricated from 3" 6 steel box pipes painted with anti-rust paint
- 5 Plain concrete footing for the solar cell stand

**Project :**  
**Hai-Elwifag Water Yard- Blue Nile State**

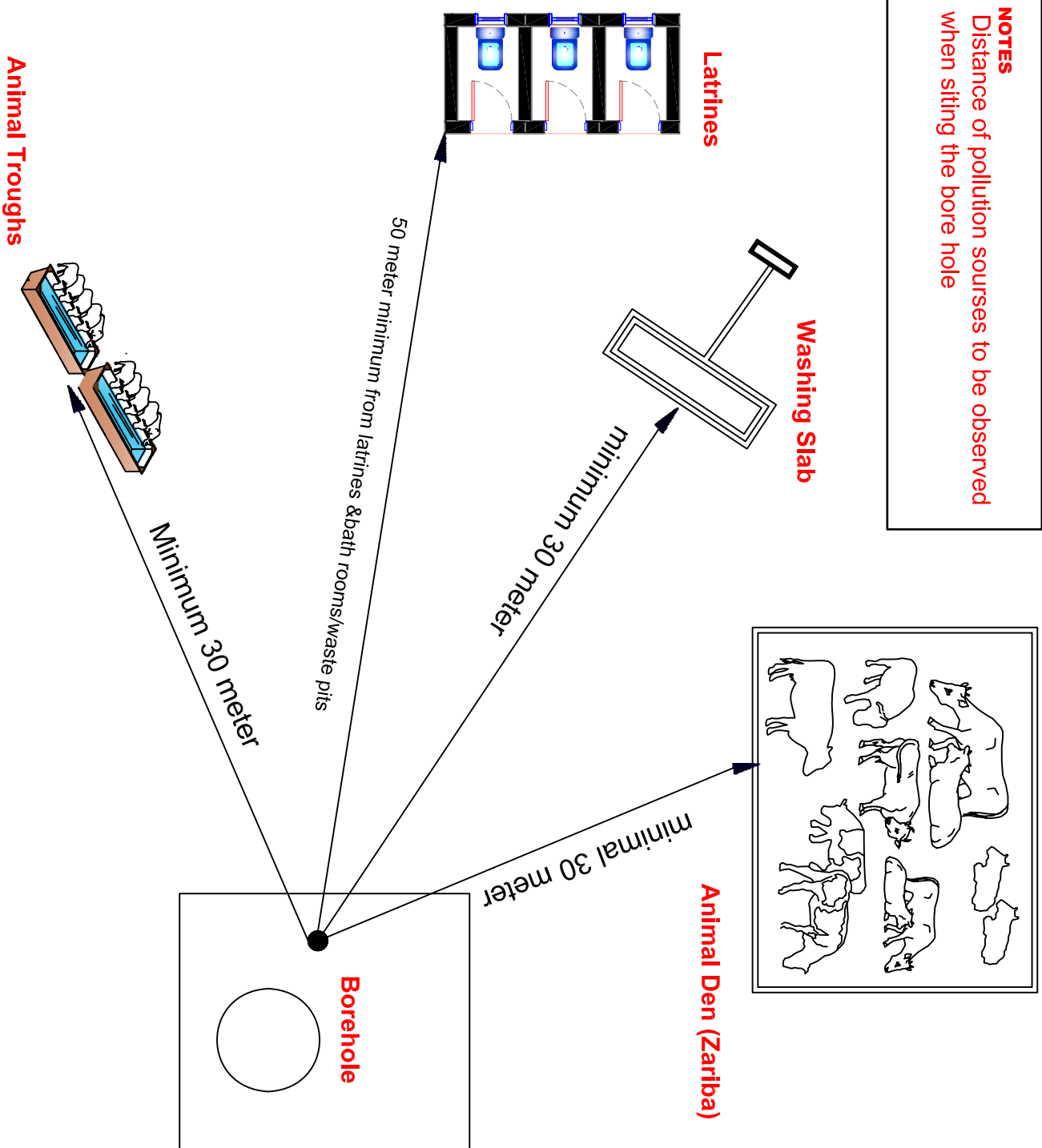
**Content :**  
**Water tank drawings**

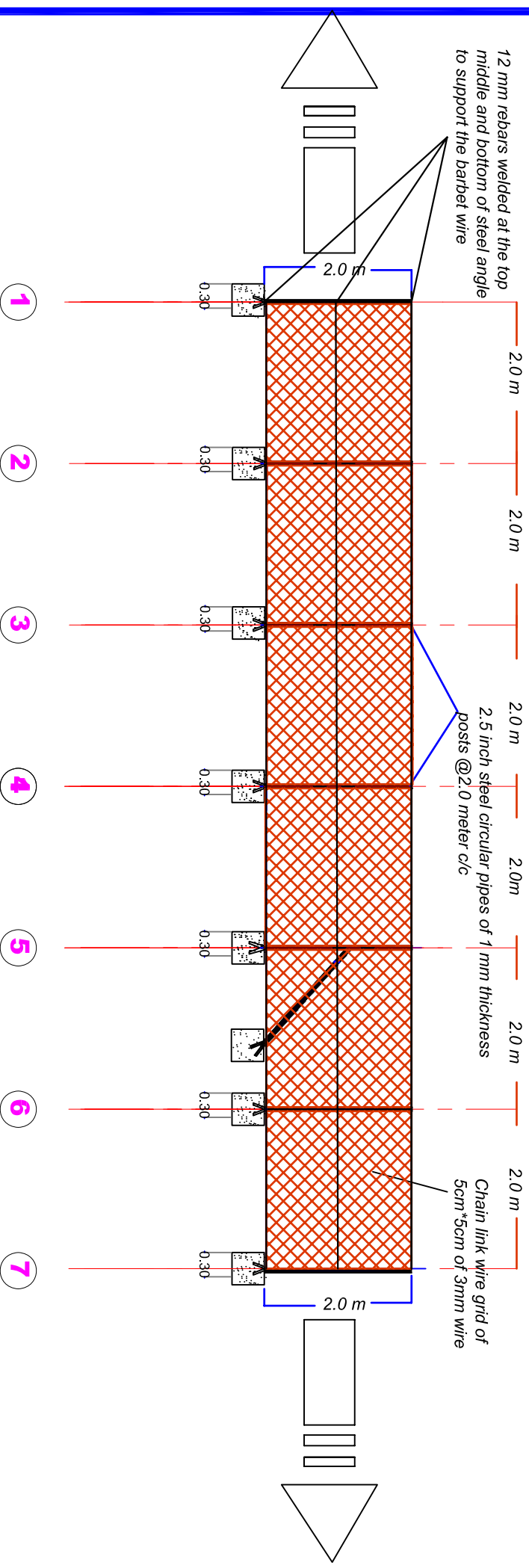
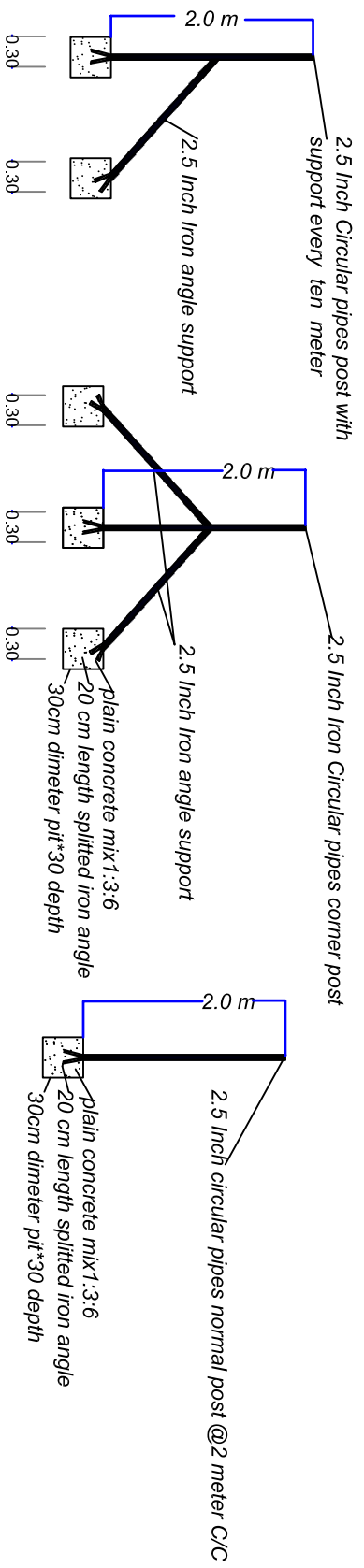
**drawn By:**  
**UNDP**

**July**  
**2020**



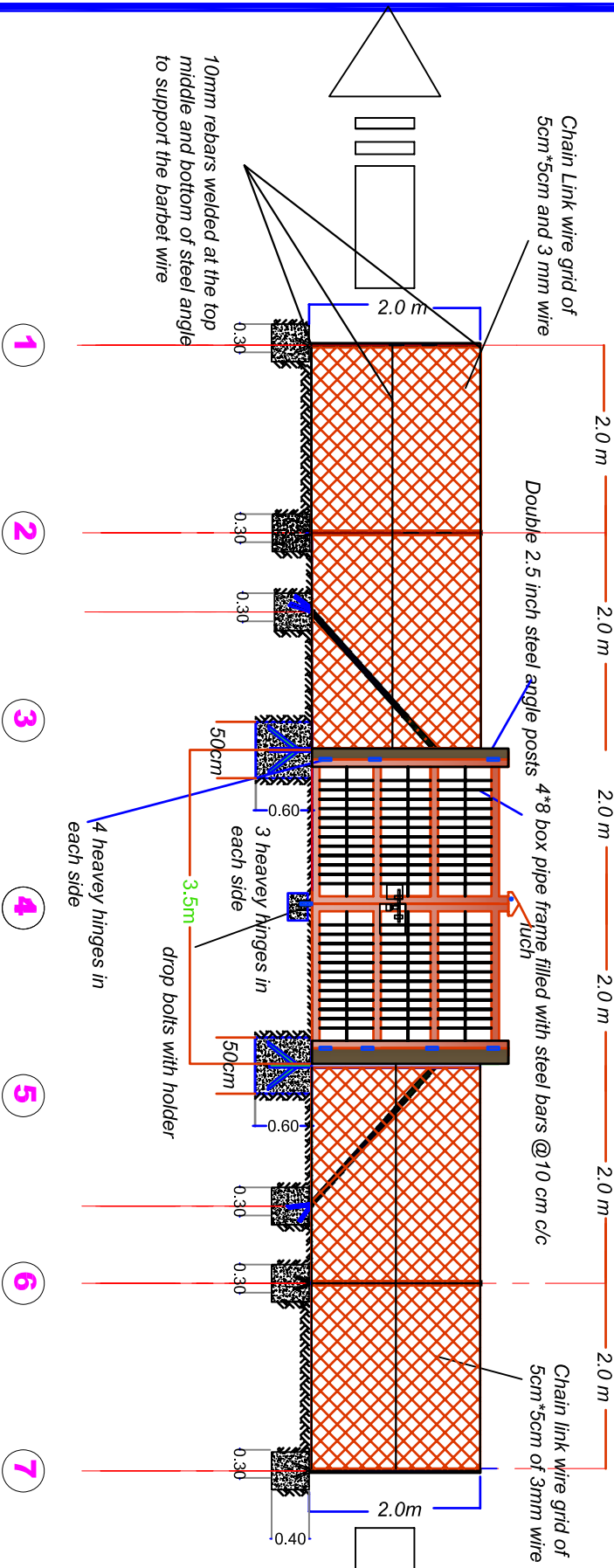
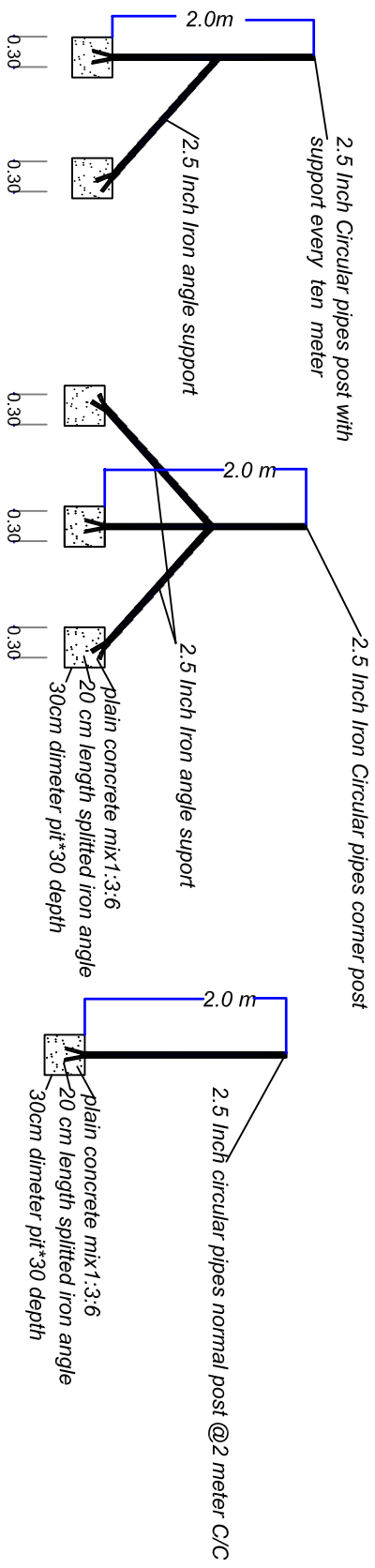
**NOTES**  
Distance of pollution sources to be observed  
when siting the bore hole



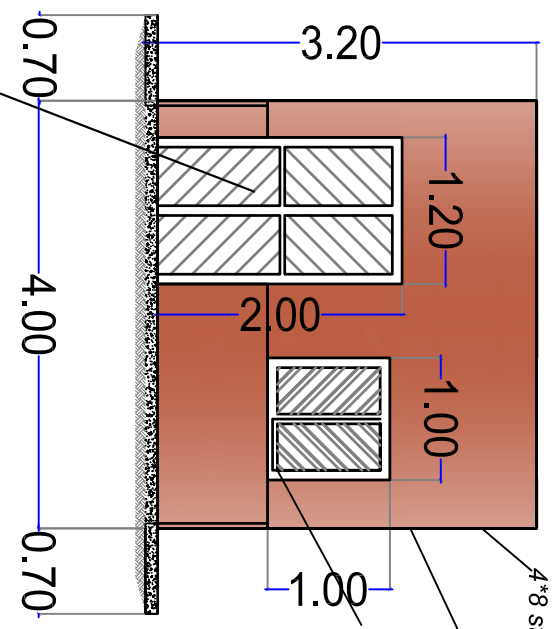


**Note:**

*All steel frames shall be painted with anti-rust paints*



**Note:**  
All steel frames shall be painted with anti-rust paints

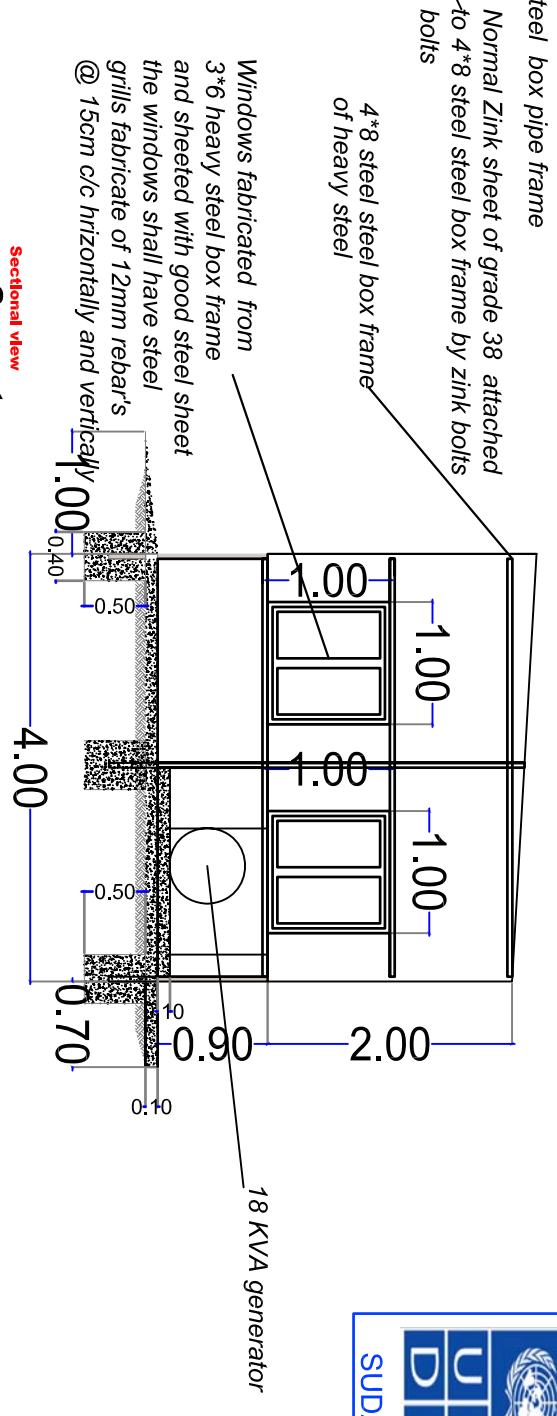


**Main View**  
**Generator Room**

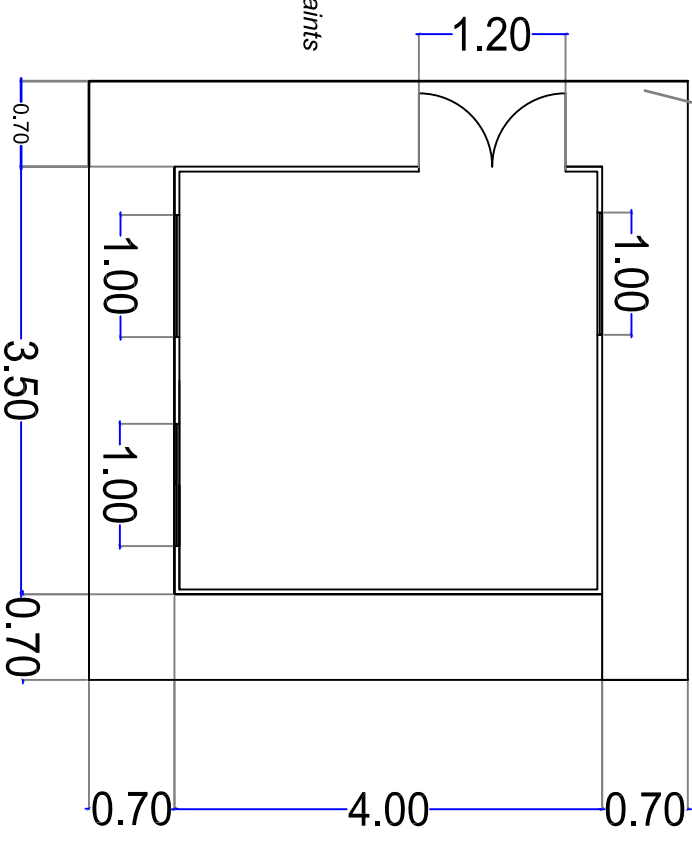
Door fabricated from 4\*8 outer frame  
3\*6 inner frame of heavy steel box pipes  
and sheeted with good steel sheet  
the windows shall have steel  
grills fabricate of 12mm rebar's  
@ 15cm c/c horizontally and vertically

**Note:**

All steel frames shall be painted with anti-rust paints



**Sectional View**  
**Generator room**



**PLAN**  
**Generator Room**

**Note:**

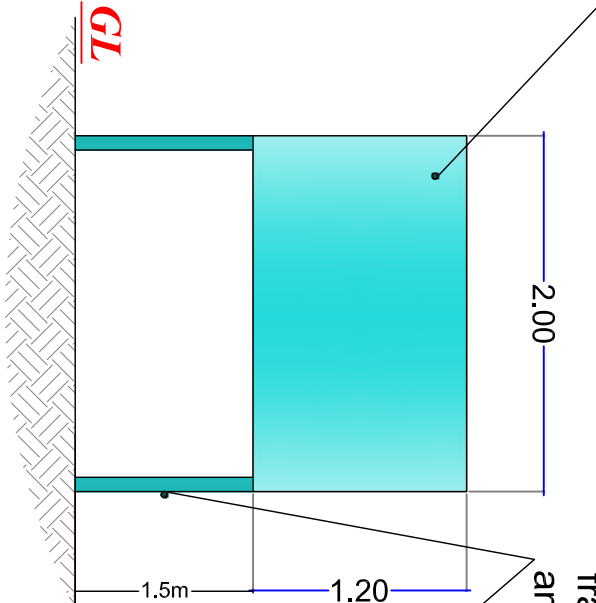
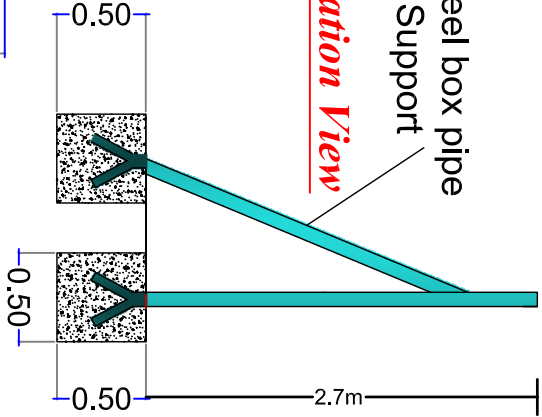
- The steel frame and the steel sheet shall be of good quality
- The steel frame and the sheet shall be painted with antirust and final coats
- The contractor shall properly write and draw as indicated in the BoQ

Heavy steel sheet fully welded to  
4\*8 steel box pie frame

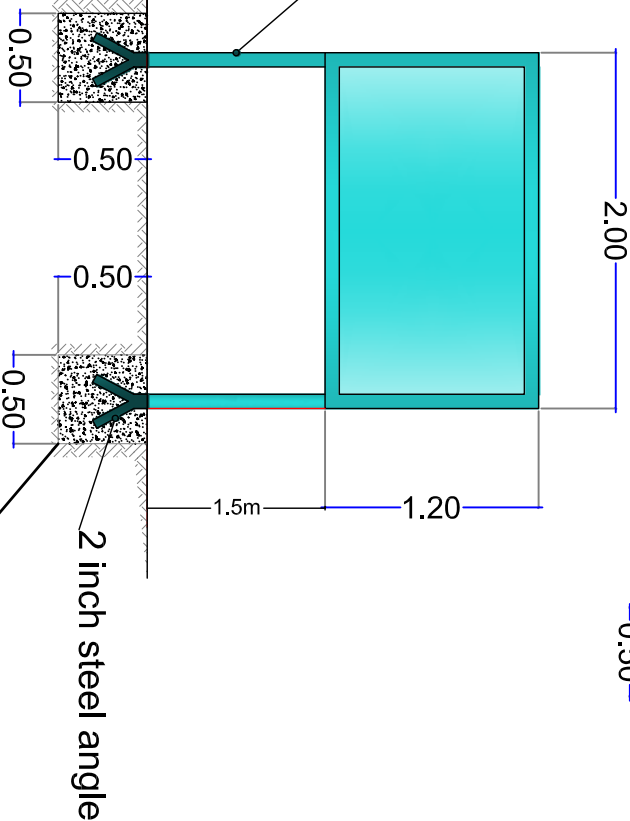
4\*8 steel box pipe  
frame painted with  
antirust paint

*Side Elevation View*

4\*8 steel box pipe  
Support



*Front Elevation View*



*Rear Elevation View*

Plan concrete

2 inch steel angle



GENERAL:  
1- All steel members shall be of good quality heavy steel (Black type).  
2- All steel members shall be painted with antirust paints and final coats.  
3- Reinforced concrete shall be of 1:3:6 mix and shall be treated properly with water otherwise stated.  
4- All dimensions are in meter unless otherwise stated.

Project Name:  
Haj-Elwifag Water Yard- Blue Nile State

Content:  
Sign Board Details

Designed by:  
UNDP-C2SP

2020

Drawn By:

12