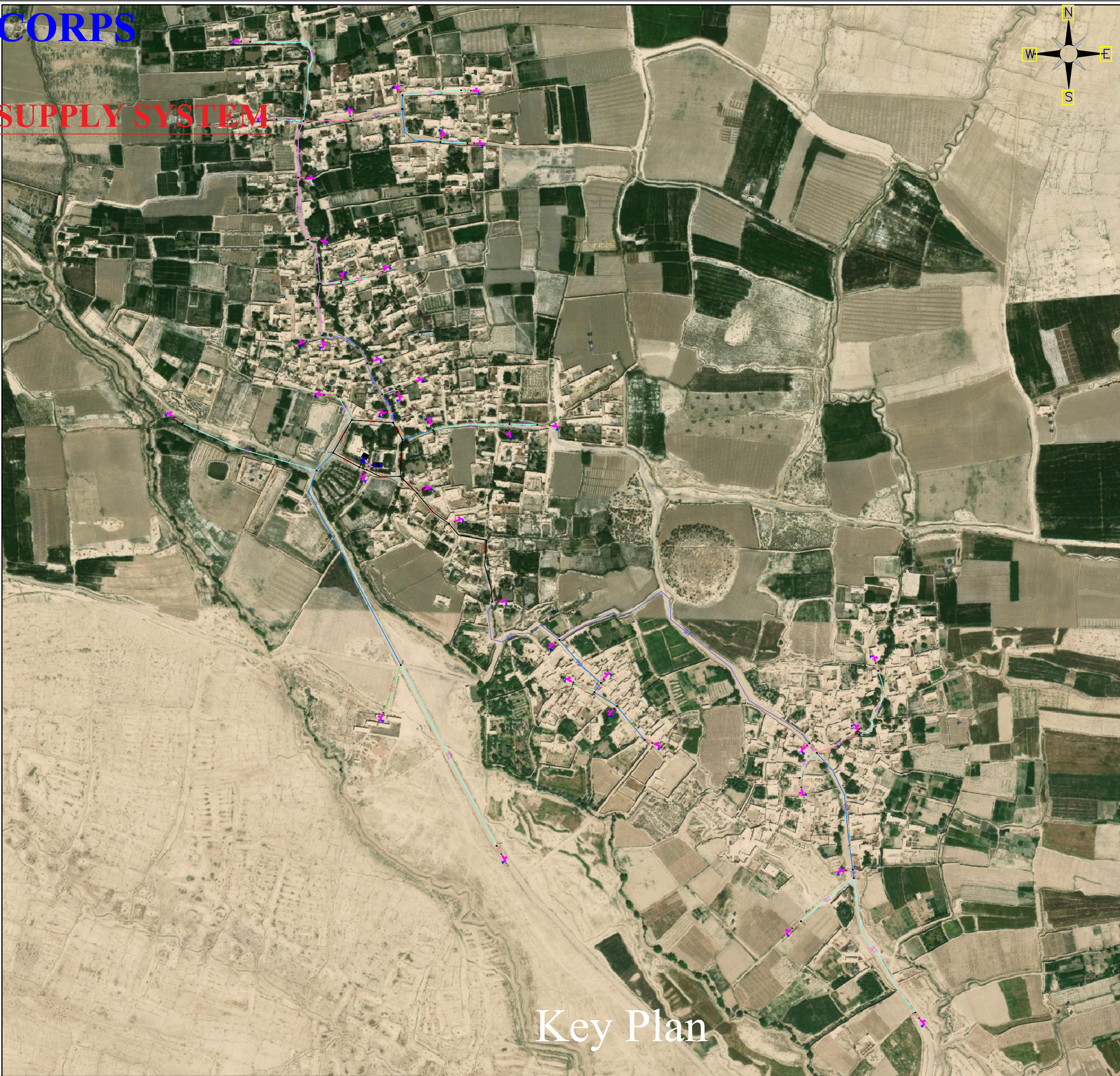
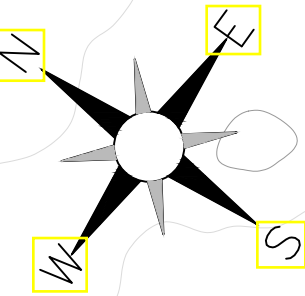


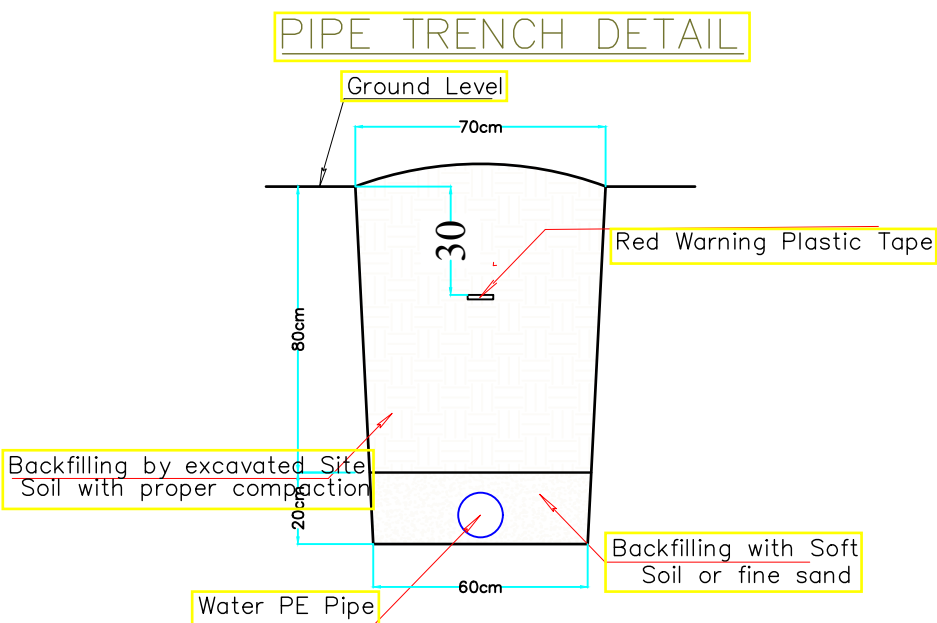
INTERNATIONAL MEDICAL CORPS  
WASH PROGRAM  
Khwaja Roshnaee SOLAR POWERED WATER SUPPLY SYSTEM



Key Plan

Stand post information				
Tp #	House Hold	Tap coordinates		
	Name	X (m)	Y (m)	Elev (m)
1	M.Nazar	286,232.64	4,088,818.50	311.01
2	Sulaim	286,196.83	4,088,930.40	309.90
3	chari	286,354.84	4,088,822.57	310.99
4	Rajab	286,427.10	4,088,857.42	309.40
5	M.ayub	286,529.89	4,088,859.34	309.05
6	Mohammad Hase	286,486.53	4,088,789.30	310.29
7	Khan Murad	286,535.08	4,088,782.71	310.17
8	Masjed Jami	286,290.19	4,088,732.49	312.27
9	Abdul Satar	286,310.20	4,088,641.56	312.17
10	Mohammad yaqo	286,342.53	4,088,585.13	311.96
11	Khoday Berdi	286,401.82	4,088,596.58	310.60
12	Anruddin	286,315.09	4,088,497.88	312.86
13	Mohammad Ayul	286,291.40	4,088,495.81	311.86
14	Abdul haq	286,387.32	4,088,466.75	312.23
15	Mohammad isha	286,423.20	4,088,422.10	311.11
16	Mohammad Salin	286,448.87	4,088,436.63	310.76
17	Abdul Karim	286,408.53	4,088,392.64	311.86
18	Abdul Shokur	286,316.75	4,088,417.69	312.33
19	Noor Mohammad	286,472.28	4,088,373.55	310.77
20	Hamed	286,586.00	4,088,368.11	310.64
21	Abdul Wahed	286,644.45	4,088,373.60	310.60
22	Abdul Ghafar	286,506.64	4,088,234.39	312.08
23	Mohammad Amir	286,460.64	4,088,279.21	312.57
24	Abdul Karim	286,099.36	4,088,385.40	310.00
25	Khoja Roshnayee	286,402.90	4,087,956.82	313.57
26	Mohammad Yasir	286,574.03	4,087,751.86	314.23
27	Mohammad Yaqo	286,569.71	4,088,118.01	312.30
28	Mohammad Qul	286,652.43	4,088,058.54	312.75
29	Asadullah	286722.44	4088005.75	312.78
30	Haq Murad	286678.27	4088001.03	313.32
31	Imam Bukhari Mo	286737.7	4087962.77	313
32	Qurban	286792.99	4087912.95	313.16
33	Rahmatullah	287016.98	4087909.32	313.03
34	Shuja	287091.16	4087929.81	312.8
35	Uzbakia Mosque	287116.67	4088028.93	312.88
36	Raz Mohammad	287008.76	4087848.7	313.38
37	Khoday dad	287073.08	4087728.21	311.29
38	Mohebullah	286995.51	4087644.28	312.63
39	Khan Mohammad	287179.78	4087513.82	313.26
40	Masjed Jami	286376.79	4088304.92	312.96

Project Name	Khwaja Roshnaee Village Water Solar Operated HH Pipe Scheme		BHA/IMC	
Designed by IMCWASH-TEAM	Checked/Reviewed by ENG.M.YOUSUF MAZHAR	Approved by HQ, Syed Yasir Ahmad	Date SEP/2022	Scale AS-SHOWN
Province	Balkh	HORIZONTAL ALIGNMENT		
District	Charbolak			
Village/CDC	Khwaja Roshnaee			
		DRAWING#1	Edition 1ST VERSION	Sheet SHEET 1



Infrastructures Location				
S/N	Feature Name	Easting (M)	Northing (M)	Elevation (m)
1	Water Well	320,014.22	4,084,987.37	323
2	Water Tank	320,013.65	4,084,967.99	323

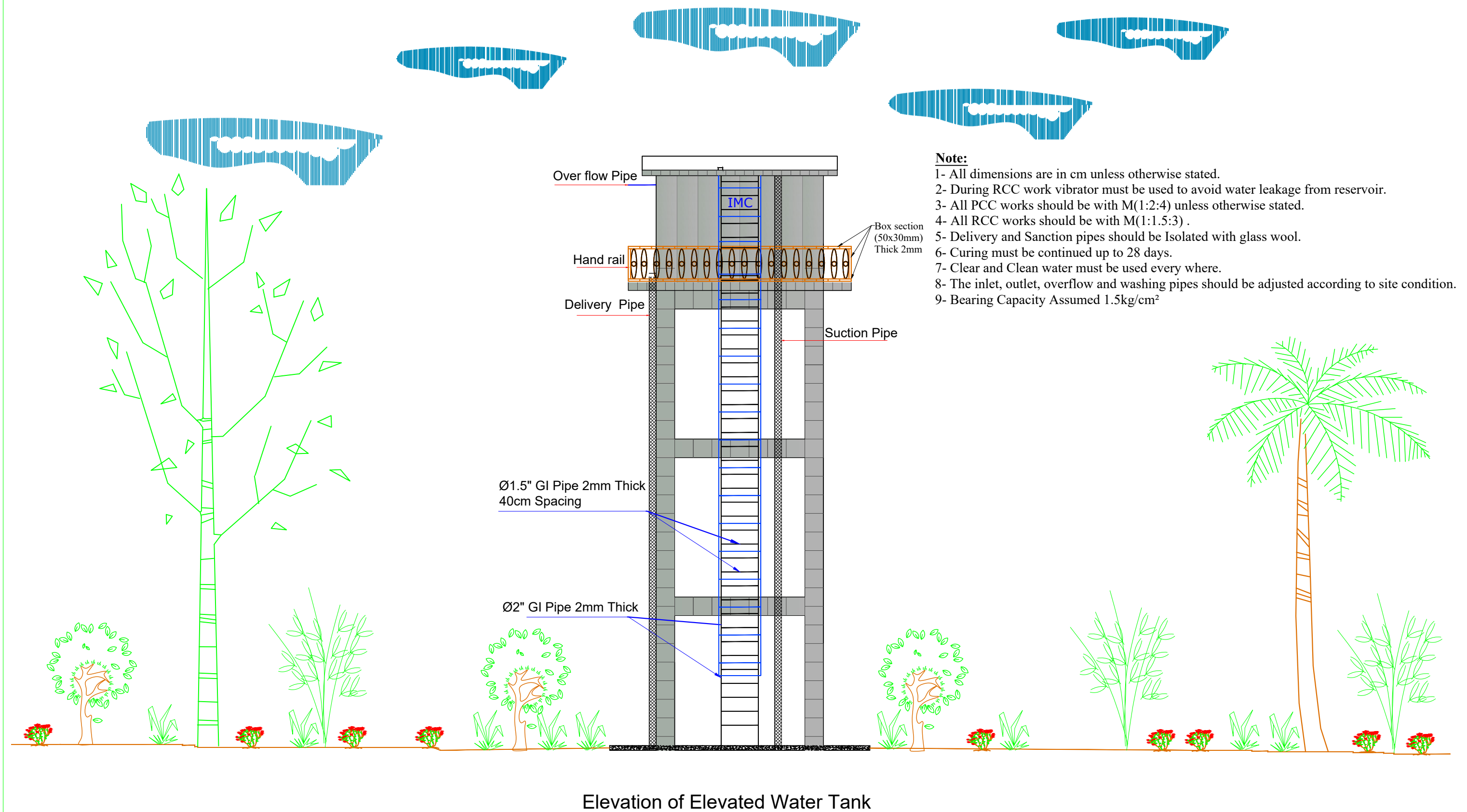
**Note:**


- The unit used for length is meter and for diameter is ().
- HDPE-100 Pipe, 16 Bar used for 020, 025 and Well-Tank pipes, and the HDPE-PE100, 10 Bars is using for larger sizes of the pipes, from032 and above (As per PE pipe standard Catalogue).
- All diameter of PE pipe in drawing considered Outer diameter.
- The design/drawing has been prepared based on GPS surveyed data, therefore the flow must be checked in some critical pressure zones and in case of issues should inform the design team for further technical guidance and follow ups.
- The WASH Site engineer and contractor should adjust the Taps flow to design flow.
- Arbitrary tap's connections are not allowed, so please avoid extra tap's connection, but in case of need please contact with the design team and then you can take further steps accordingly.

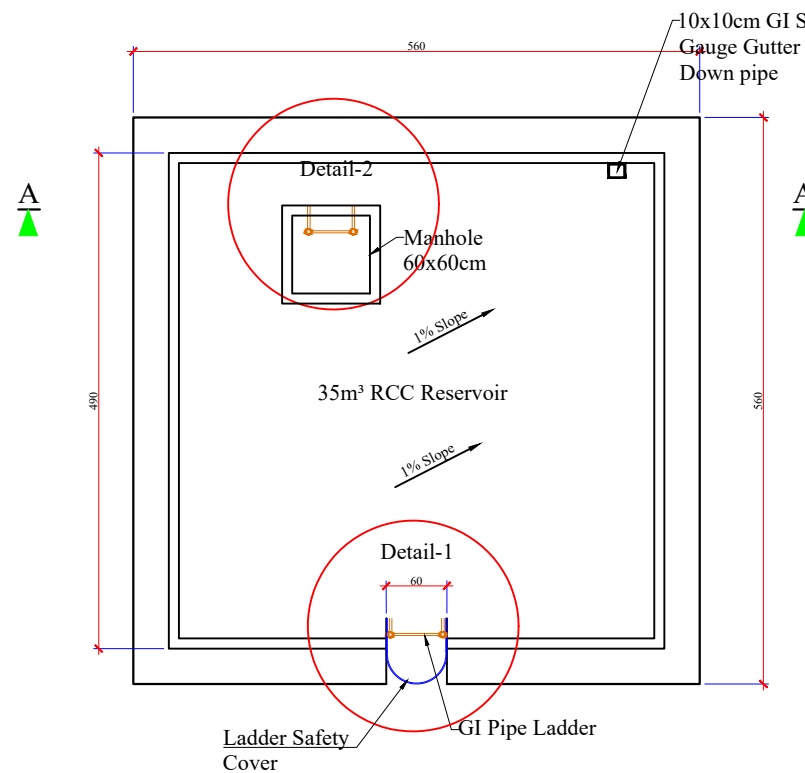
LEGEND

Water Well+PV system	
Topographic (Contours Lines)	
Residential Area	
PE Pipe 100, PN10 Ø(OD) 160	
PE Pipe 100, PN10 Ø(OD) 140	
PE Pipe 100, PN10 Ø(OD) 125	
PE Pipe 100, PN10 Ø(OD) OD-110	
PE Pipe 100, PN10 Ø(OD) OD-90	
PE Pipe 100, PN10 Ø(OD) OD-75	
PE Pipe 100, PN10 Ø(OD) OD-63	
PE Pipe 100, PN10 Ø(OD) OD-50	
PE Pipe 100, PN10 Ø(OD) OD-40	
PE Pipe 100, PN16 Ø(OD) OD-32	
PE Pipe 100, PN16 Ø(OD) OD-25	
PE Pipe 100, PN16 Ø(OD) OD-20	
PE-PIPE FROM WELL-TANK	
STAND POST	
POINT (NODES)	
WATER TANK	
GATE VALVE BOX	

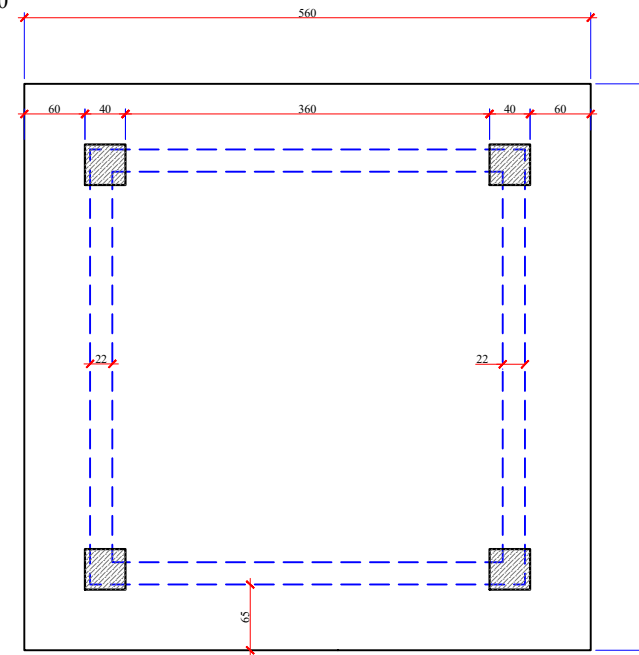




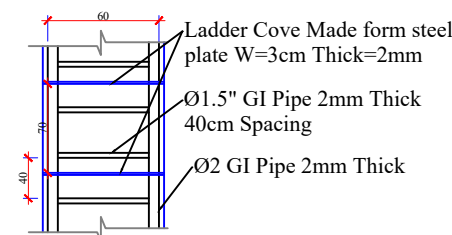
Funded by:	USAID / BHA	Drafted and Design BY:	IMC/WASH Team	Province	Balkh	Date	Sep/2022	Drawing Title	Elevated 35 M3 Tank	 <b>International Medical Corps</b>
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT		Review and Checked by:	Eng. Yousuf Mazhar	District	Charbolak	Scale	A3-shown	Sheet Title	Front View	
		Review and Approved by:	Eng. Mohammad Yasir	Village	Khoja Roshnayee	Unit	Centimeters	Sheet #	01	



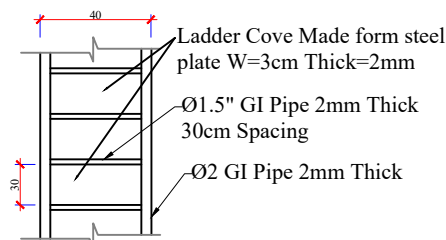
1 TANK ROOF PLAN  
SCALE 1:100



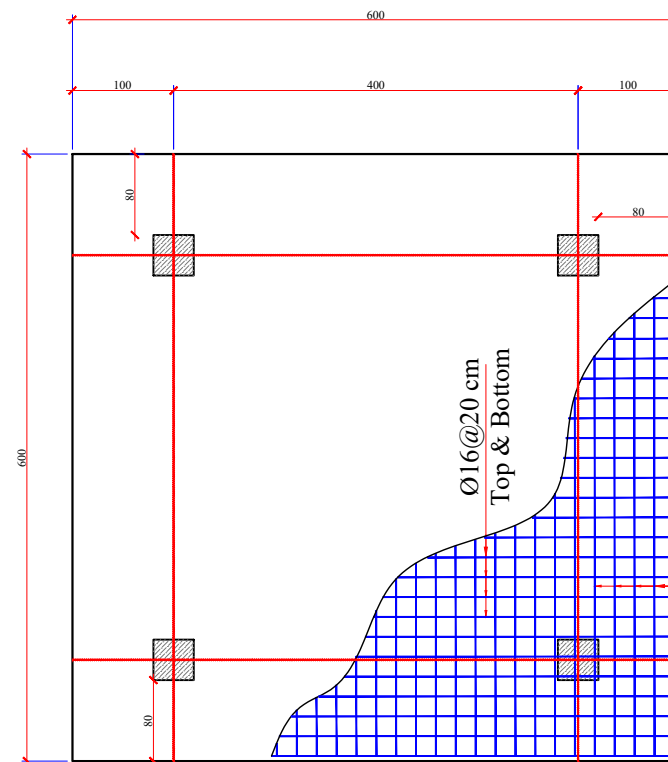
1 TANK FLOOR PLAN  
SCALE 1:100



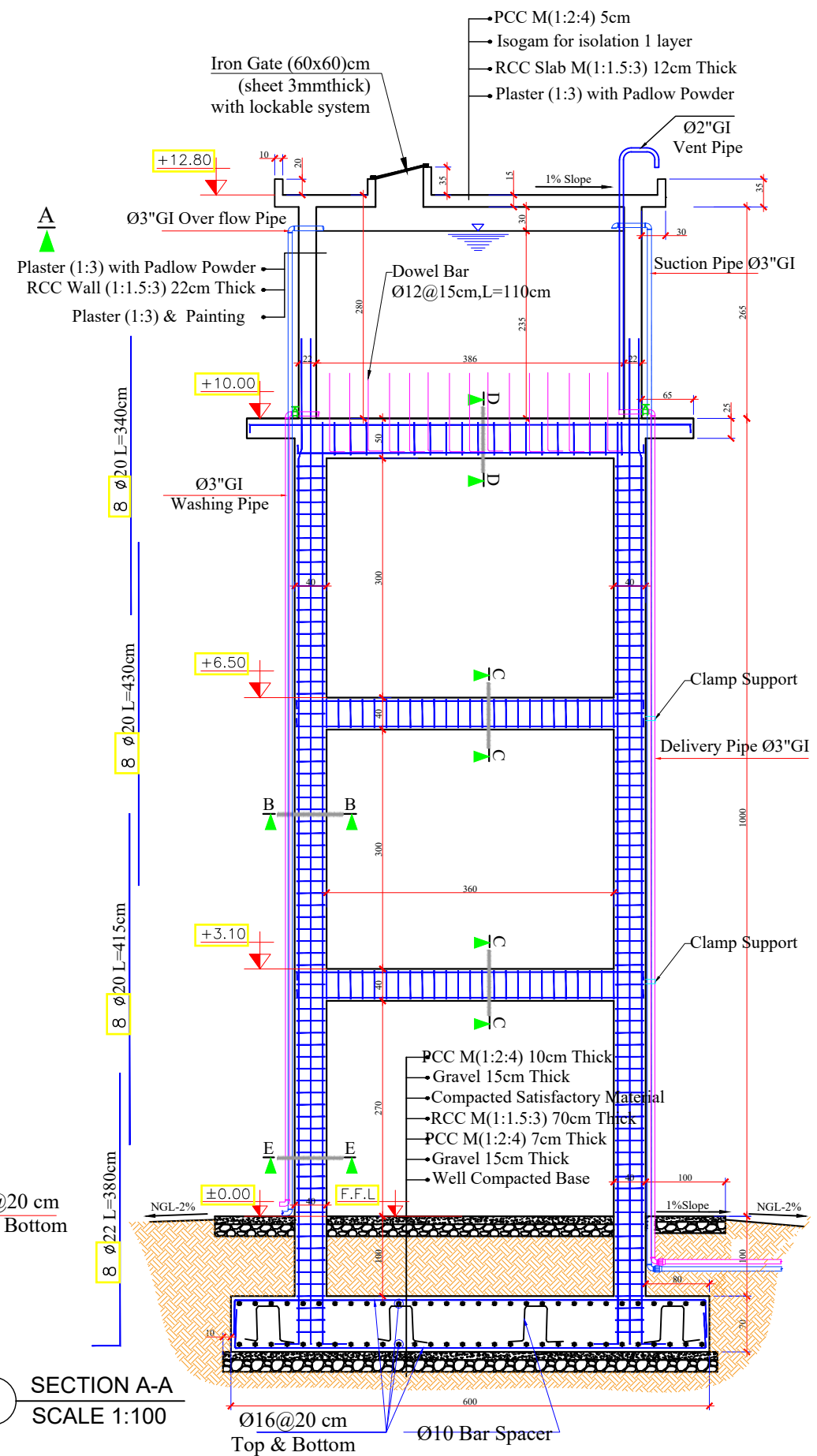
1 Detail -1  
SCALE: NTA



1 Detail -2  
SCALE: NTA



2 FOOTING REINFORCEMENT PLAN  
SCALE 1:100



3 SECTION A-A  
SCALE 1:100

Funded by: USAID / BHA

INTERNATIONAL MEDICAL CORPS (IMC)  
PROGRAM DEPARTMENT  
WASH UNIT

Drafted and Design BY: IMC/WASH Team

Review and Checked by: Eng. Yousuf Mazhar

Review and Approved by: Eng. Mohammad Yasir

Province: Balkh

District: Charbolak

Village: Khoja Roshnayee

Date: Sep/2022

Scale: A3-Shown

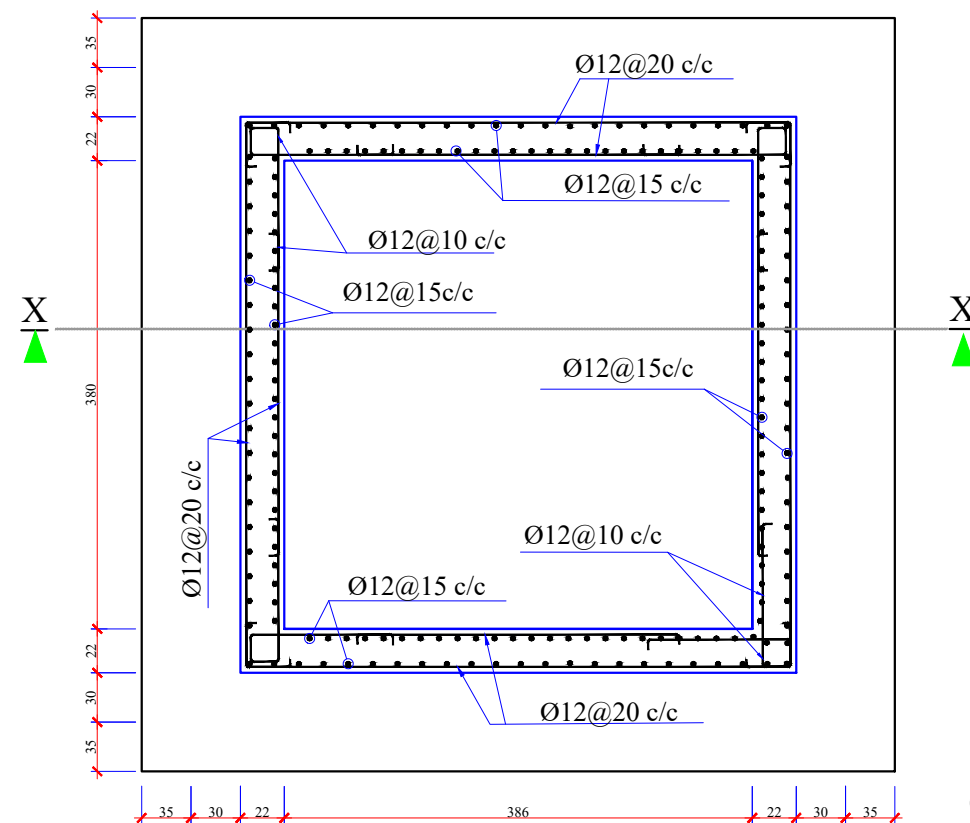
Unit: Centimeters

Drawing Title: Elevated 35 M3 Tank

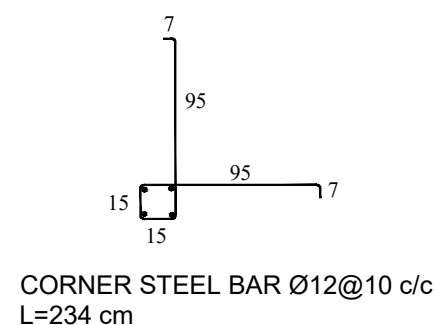
Sheet Title: Sections

Sheet #: -----



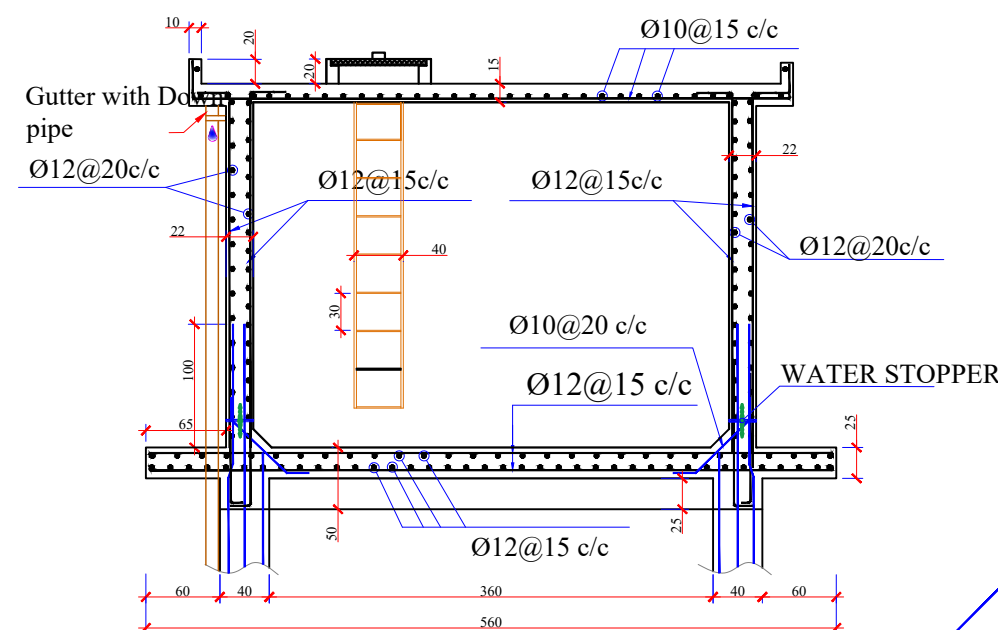


1 PLAN REINFORCEMENT  
SCALE 1:100



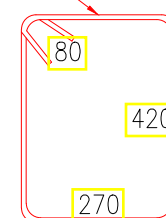
**Note:**

- 1- All dimensions are in cm unless otherwise stated.
- 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
- 3- All PCC works should be with M(1:2:4) unless otherwise stated.
- 4- All RCC works should be with M(1:1.5:3).
- 5- Delivery and Sanction pipes should be Isolated with glass wool.
- 6- Curing must be continued up to 28 days.
- 7- Clear and Clean water must be used every where.
- 8- The inlet, outlet, overflow and washing pipes should be adjusted according to site condition.
- 9- Bearing Capacity Assumed 1.5kg/cm<sup>2</sup>



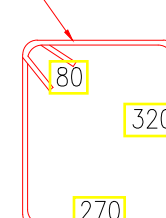
3 SECTION X-X  
SCALE 1:100

Ø8@15c/c



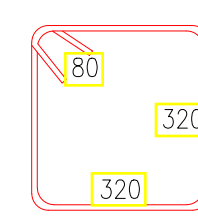
4 SECTION D-D  
SCALE 1:100

Ø8@15c/c



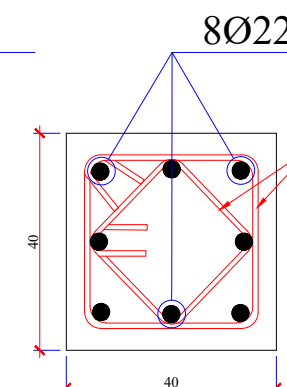
5 SECTION C-C  
SCALE 1:100

Ø8@<sup>10</sup>/<sub>20</sub> c/c



6 SECTION B-B  
SCALE 1:100

Ø8@<sup>10</sup>/<sub>20</sub> c/c



6 SECTION E-E  
SCALE 1:100

**NOTE:**

THE COLUMN'S STIRRUPS SPACING AT JOINT AND LONGITUDINAL BAR OVERLAPPING LOCATION TO BE CONSIDERED AT 10cm SPACE AND THE REST AT 20cm.

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PROGRAM DEPARTMENT  
WASH UNIT

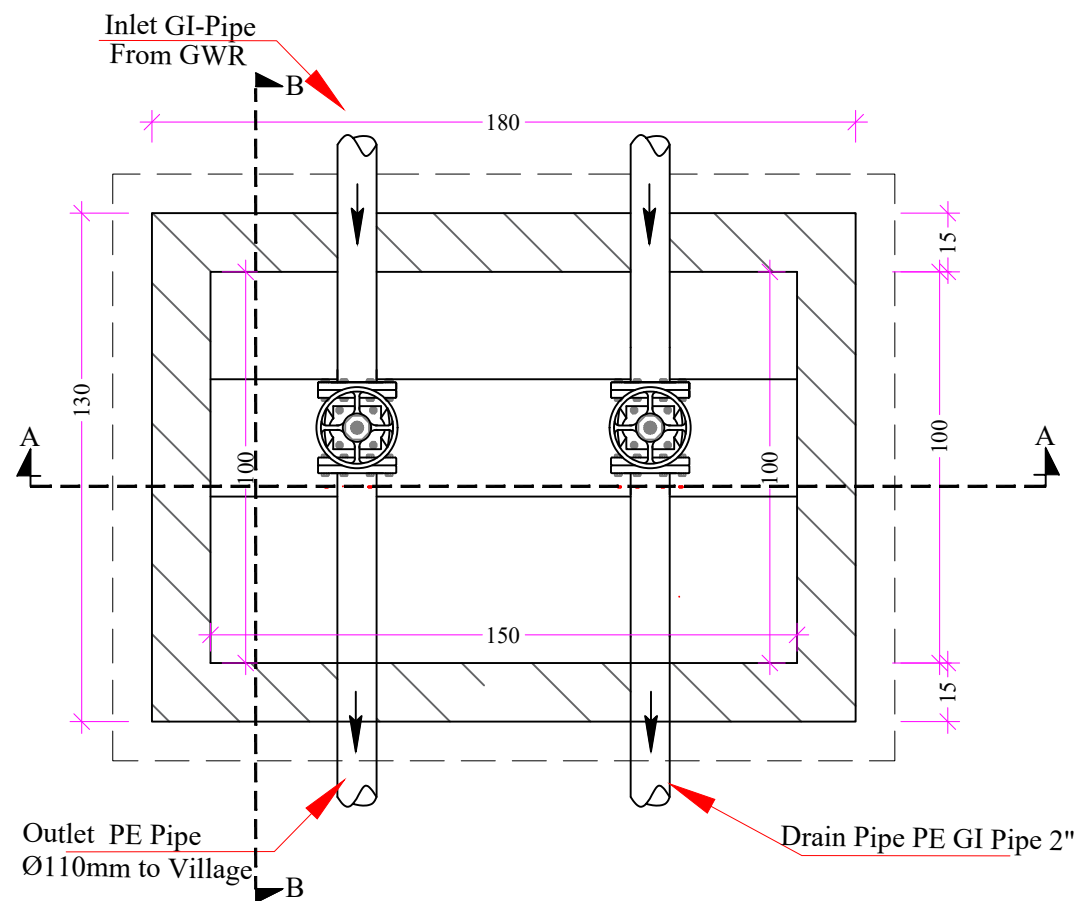
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Review and Checked by: Eng. Yousuf Mazhar  
Review and Approved by: Eng. Mohammad Yasir

Province: Balkh  
District: Charbolak  
Village: Kjoja Roshnayee

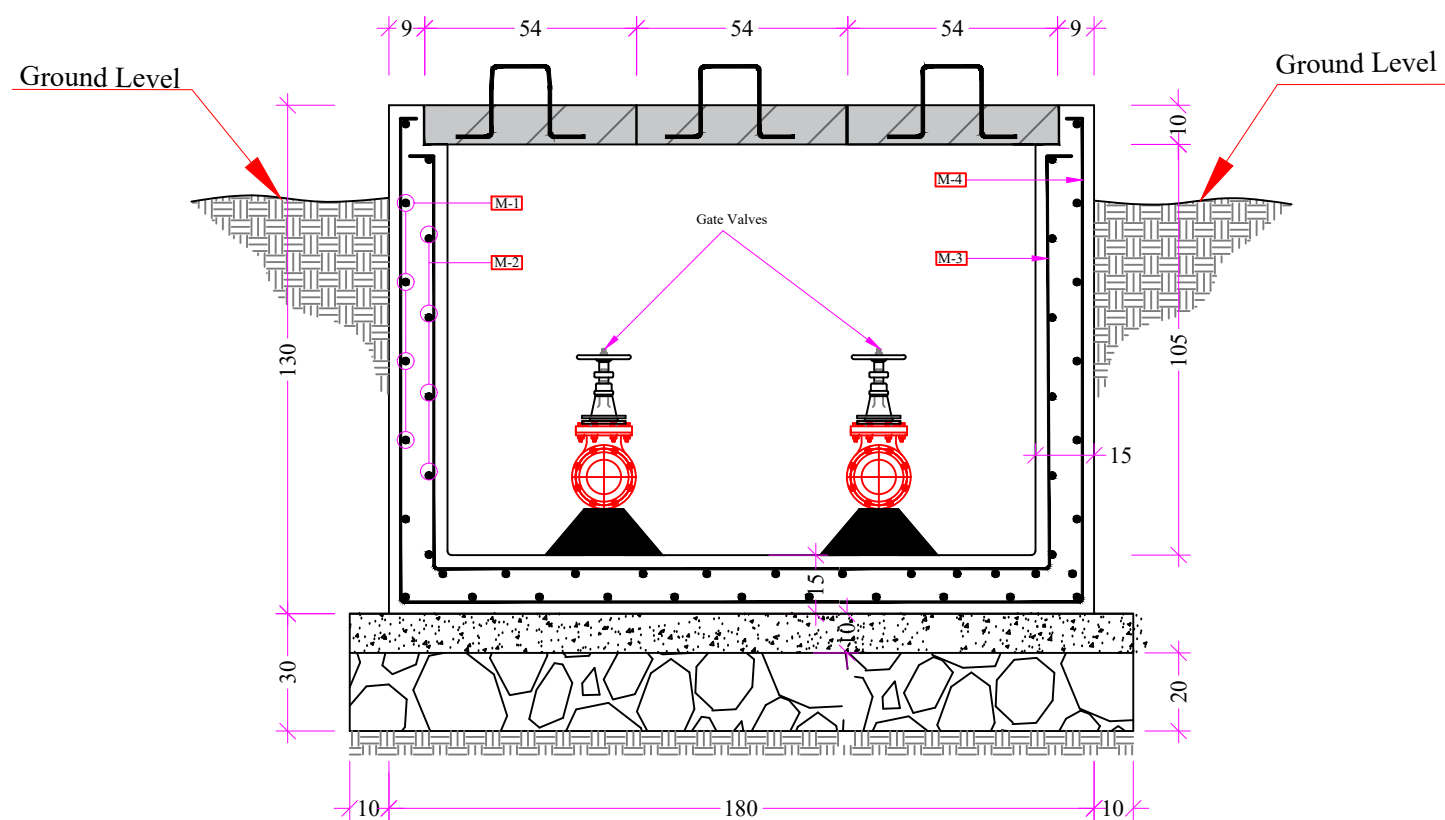
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Unit: Centimeters

Drawing Title: Elevated Tank 35 M3  
Sheet Title: Renfor. Plan  
Sheet #: -----

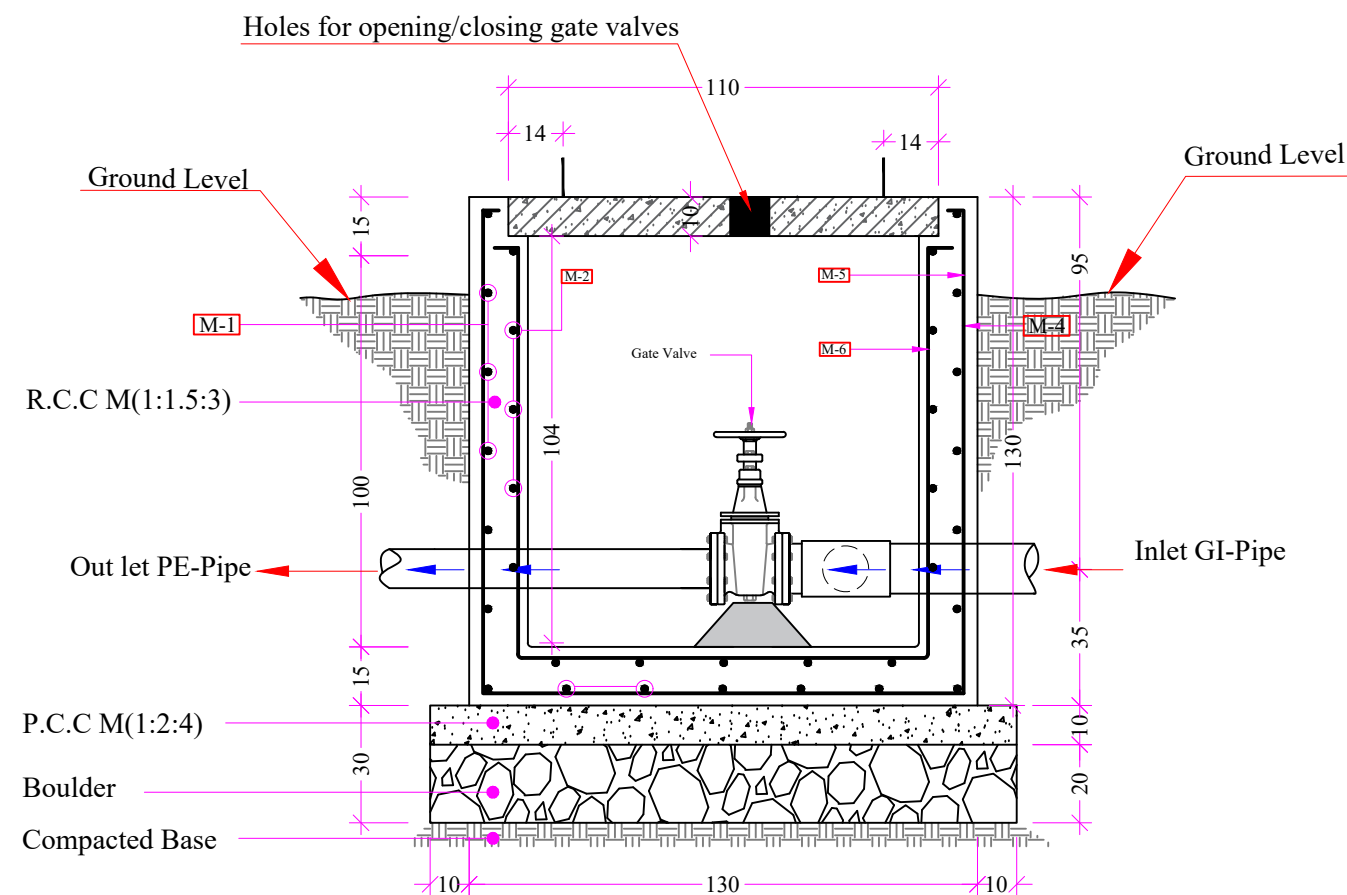




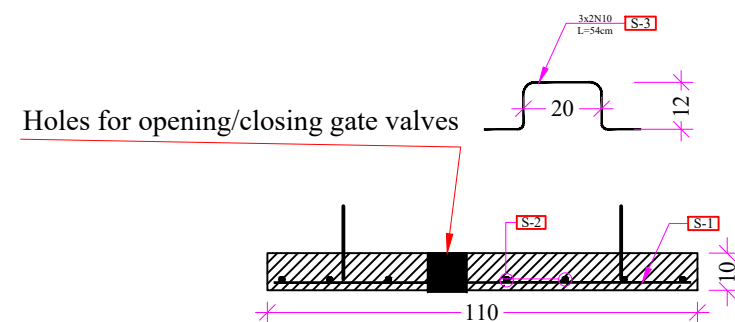
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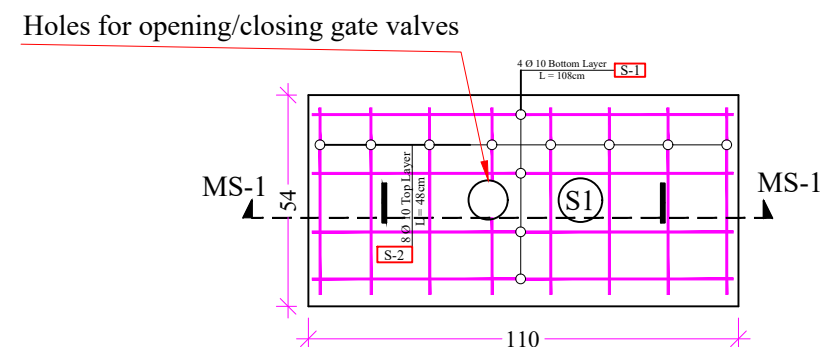
SECTION A-A



SECTION B-B



SECTION MS1-MS1



RCC SLAB PLAN

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PROGRAM DEPARTMENT  
WASH UNIT

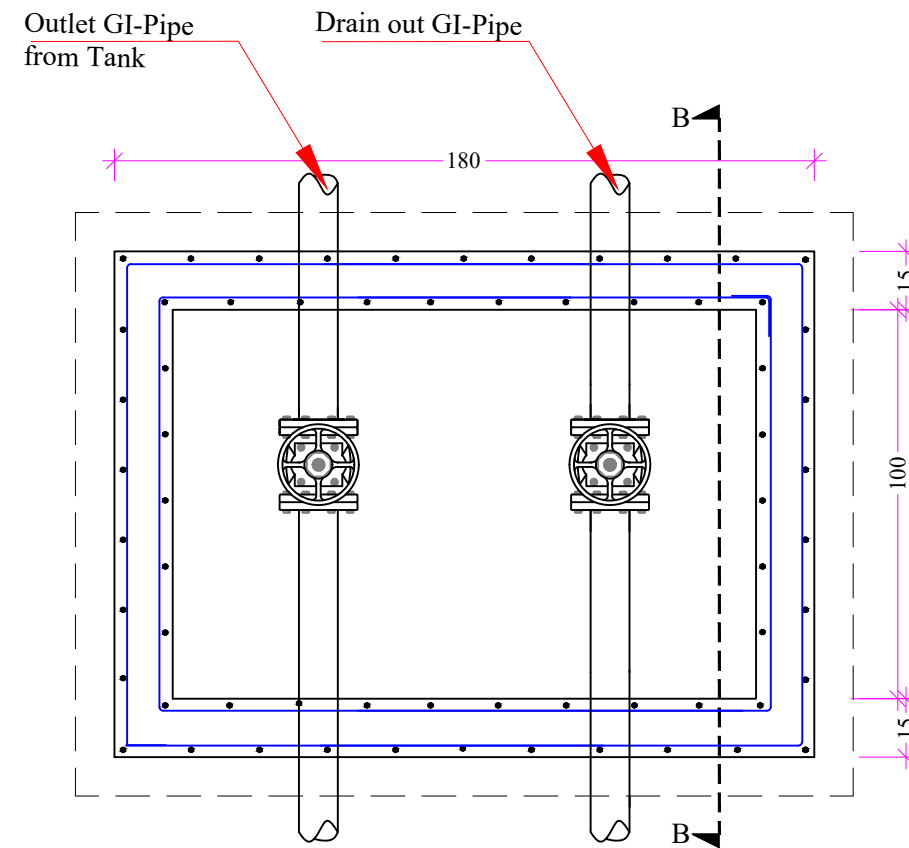
Drafted and Design BY: IMC/WASH Team  
Review and Checked by: Eng. Yousuf Mazhar  
Review and Approved by: Eng. Mohammad Yasir

Province: Balkh  
District: Charbolak  
Village: Khoja Roshnayee

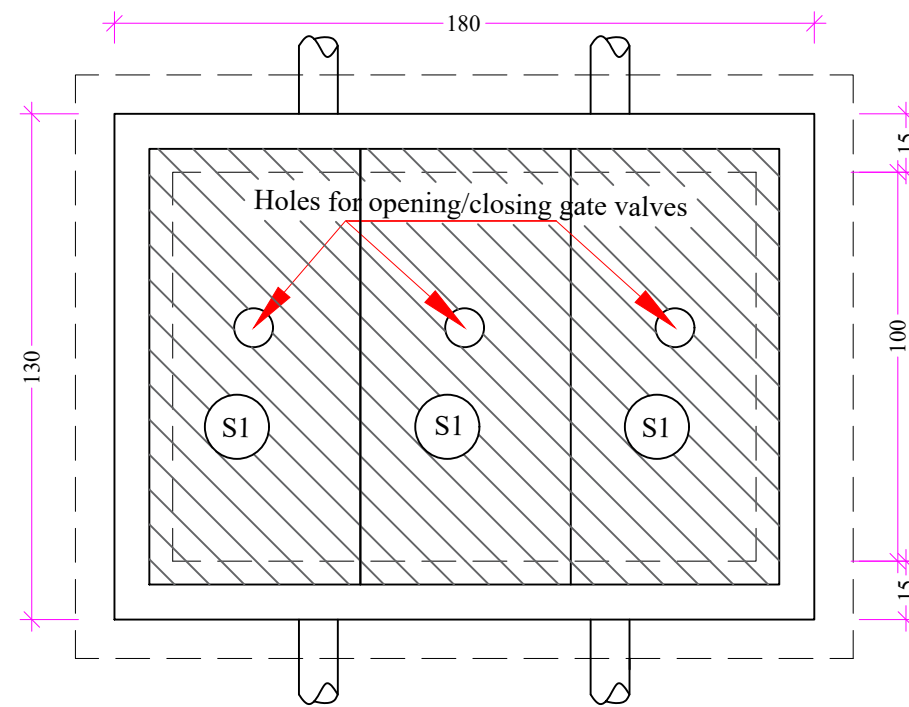
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Scale: A3-Shown  
Unit: Centimeters

Drawing Title: Gate Valve  
Sheet Title: Renfor. Plan  
Sheet #: -----

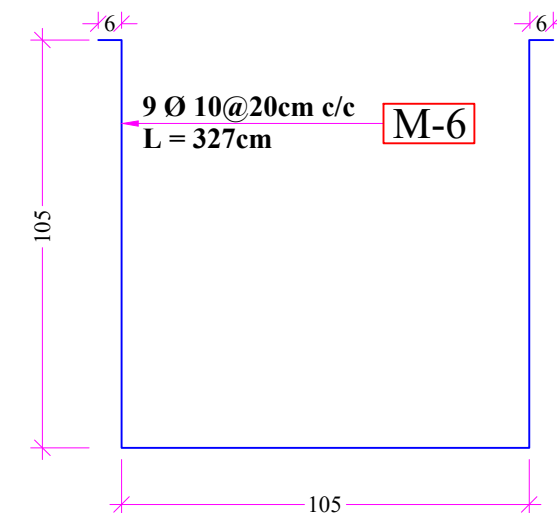
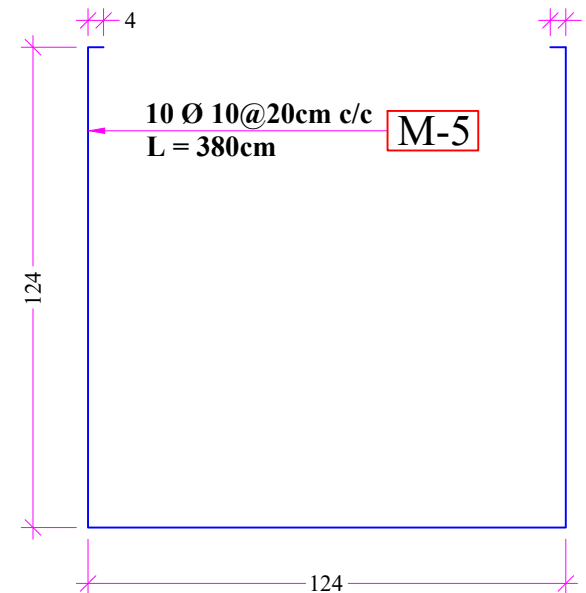
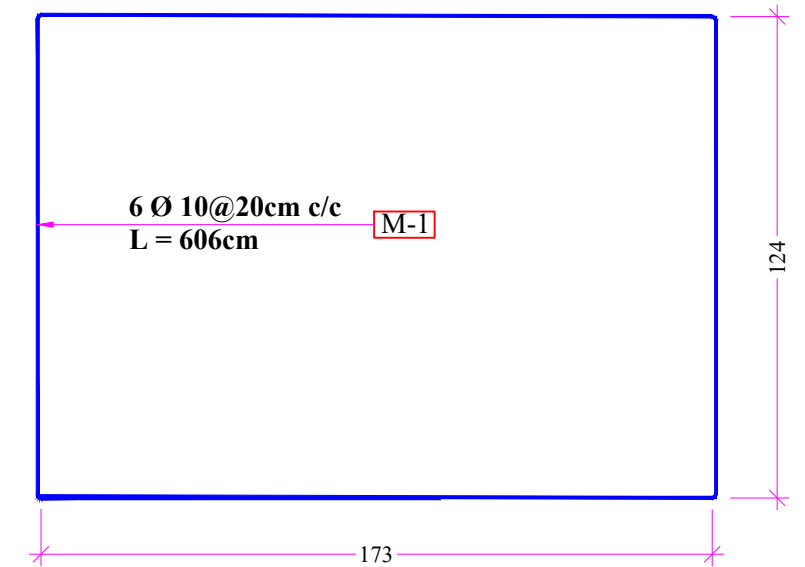
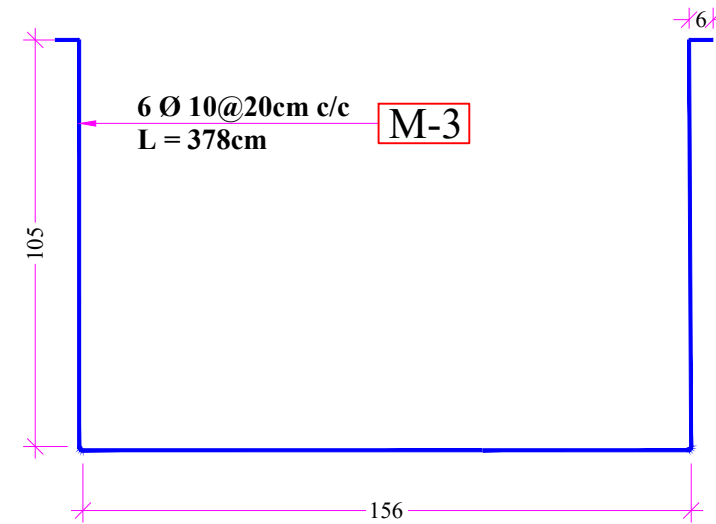
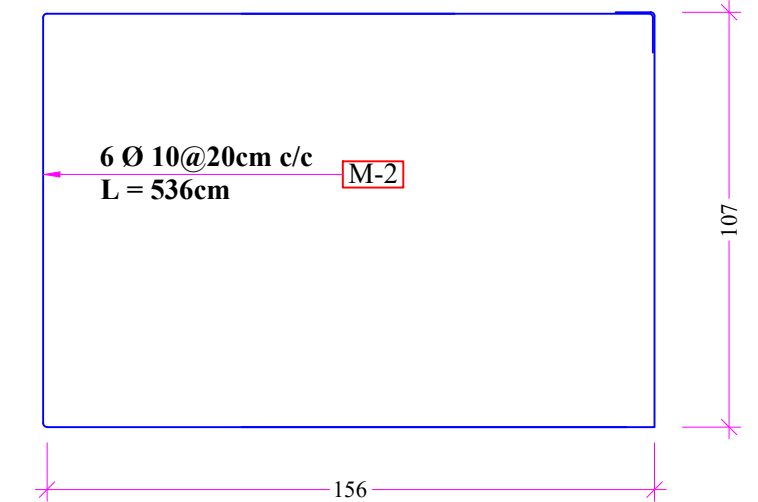
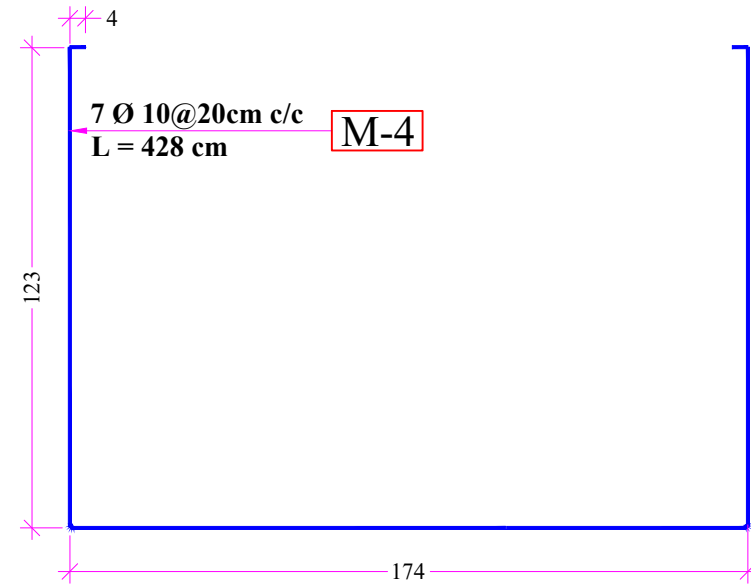




SECTIONAL PLAN OF RCC WALLS



TOP VIEW



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**INTERNATIONAL MEDICAL CORPS (IMC)**  
PROGRAM DEPARTMENT  
WASH UNIT

Drafted and Design BY: **IMC/WASH Team**

Review and Checked by: **Eng. Yousuf Mazhar**

Review and Approved by: **Eng. Mohammad Yasir**

Province: **Balkh**

District: **Charbolak**

Village: **Khoja Roshnayee**

Date: **Sep/2022**

Scale: **A3-Shown**

Unit: **Centimeters**

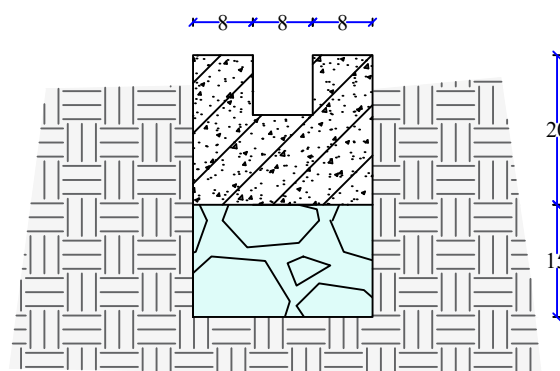
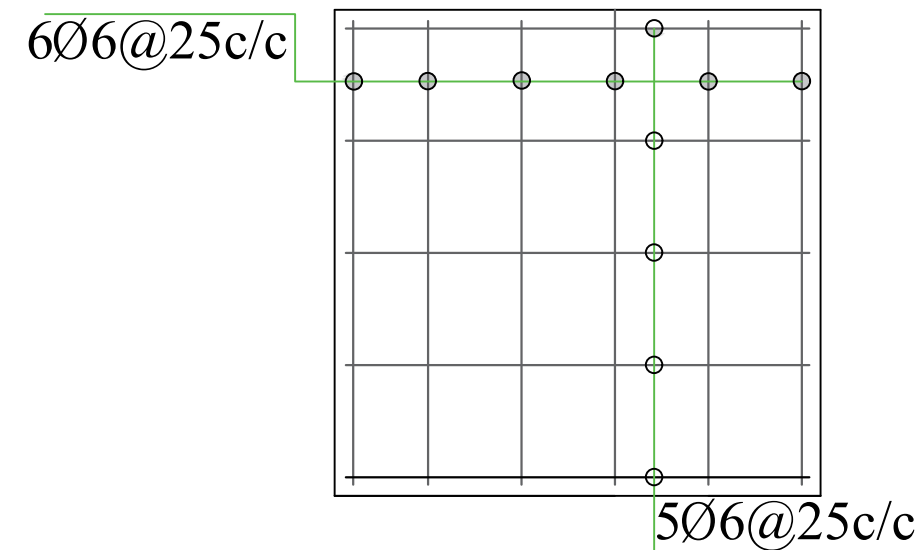
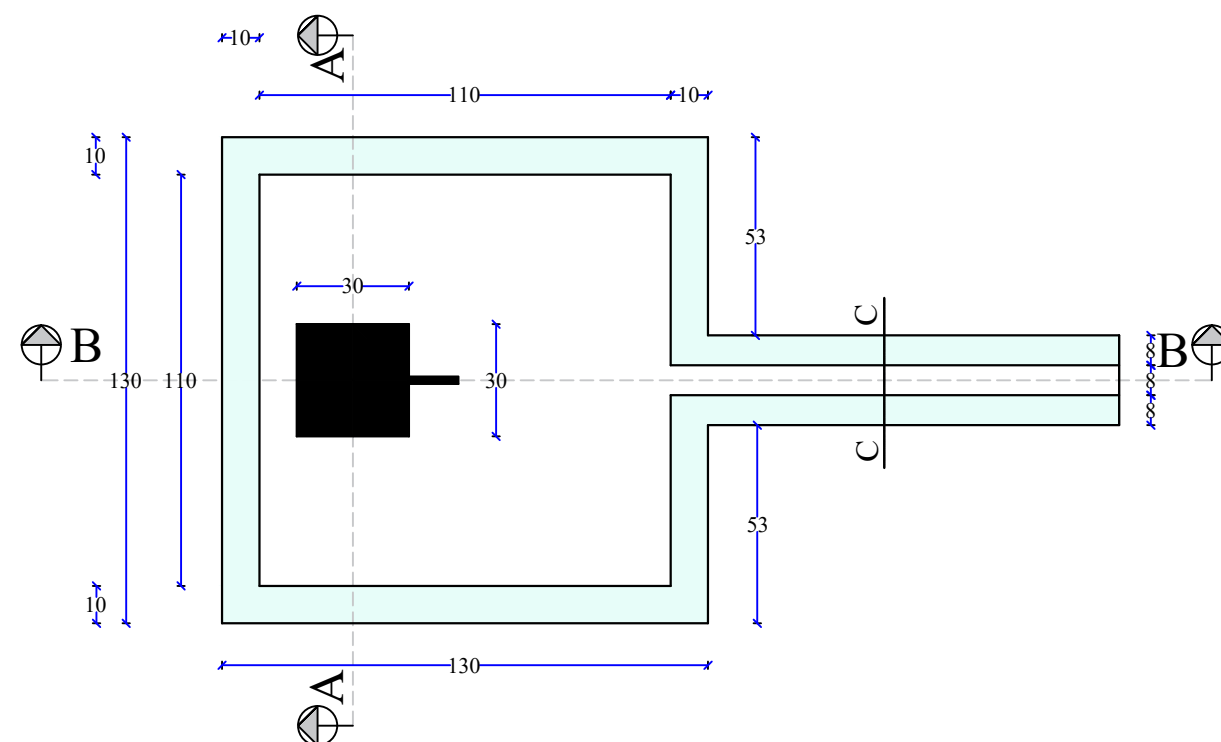
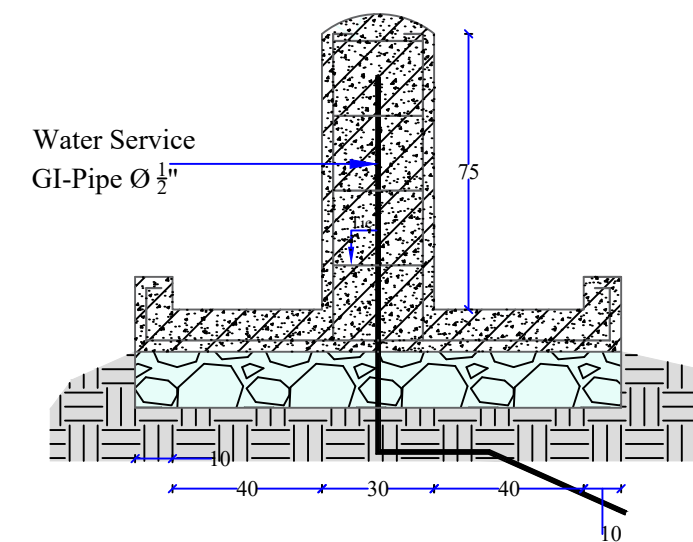
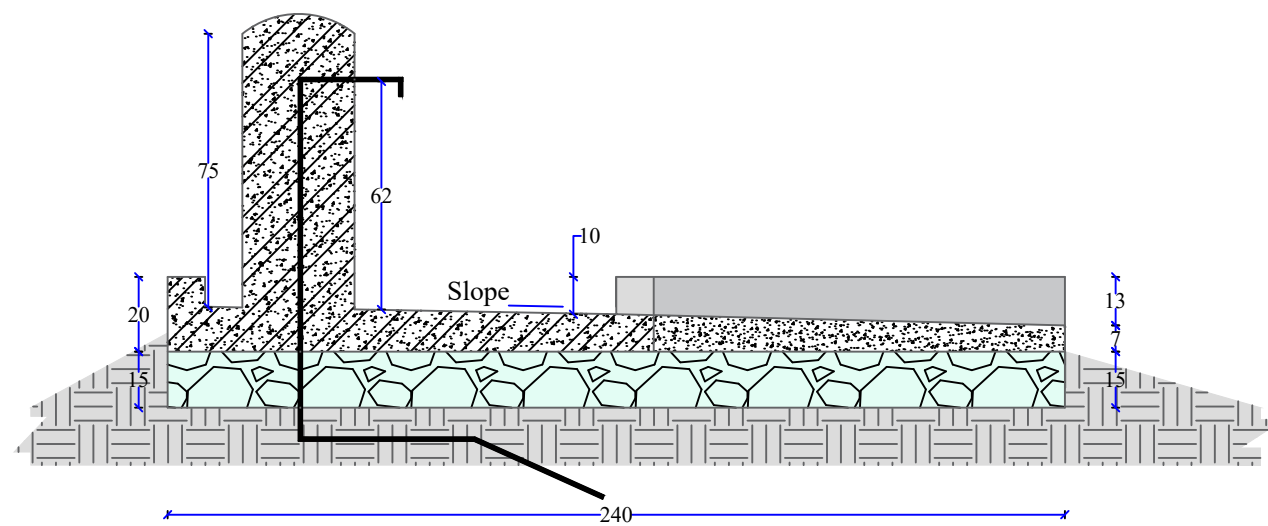
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Sheet Title: **Renfor. Plan**

Sheet #: **-----**

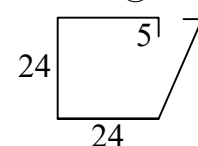






Longitudinal bars  
4Ø6

Ties  
4Ø6 @20 c/c



Tap Column reinfor...

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INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

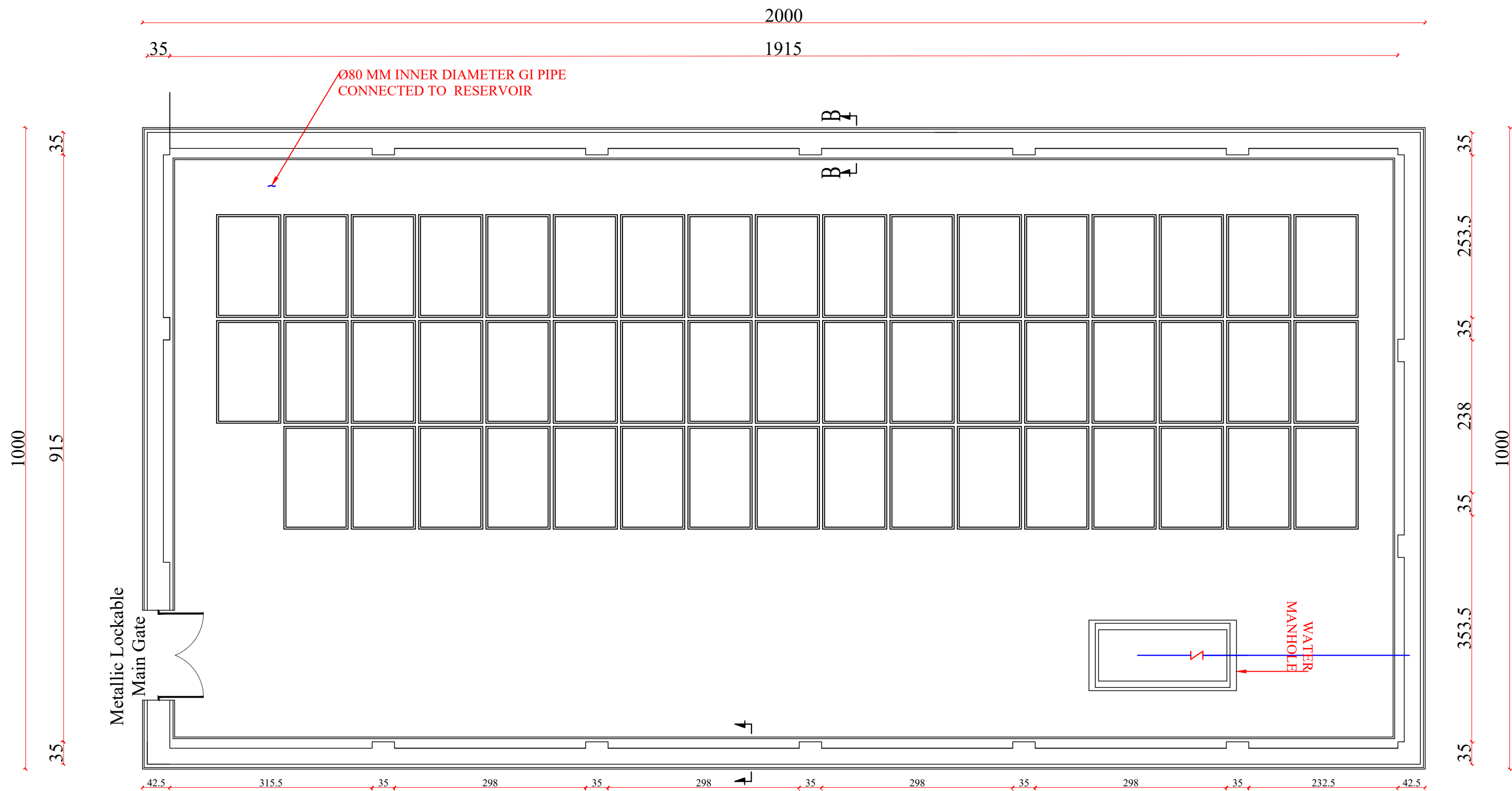
Drafted and Design BY:	IMC/WASH Team
Review and Checked by:	Eng. Yousuf Mazhar
Review and Approved by:	Eng. Mohammad Yasir

Province	Balkh
District	Charbolak
Village	Khoja Roshnayee

Date	Sep/2022
Scale	A3-As shown
Unit	Centimeters

Drawing Title	STP. Drawing
Sheet Title	Stand post
Sheet #	-----





**Note:**

- 1- All dimensions are in cm unless otherwise stated.
- 2- During RCC work vibrator must be used to avoid.
- 3- All PCC works should be with M(1:2:4) mortar unless otherwise stated.
- 4- All RCC works should be with M(1:1.5:3) mortar unless otherwise stated.
- 5- Brick masonry (1:4).
- 6- Curing must be continued upto 28 days.
- 7- Clear and Clean water must be used every where.

Funded by:	USID / BHA
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

Drafted and Design BY:	IMC/WASH Team
Review and Checked by:	Eng. Yousuf Mazhar
Review and Approved by:	Eng. Mohammad Yasir

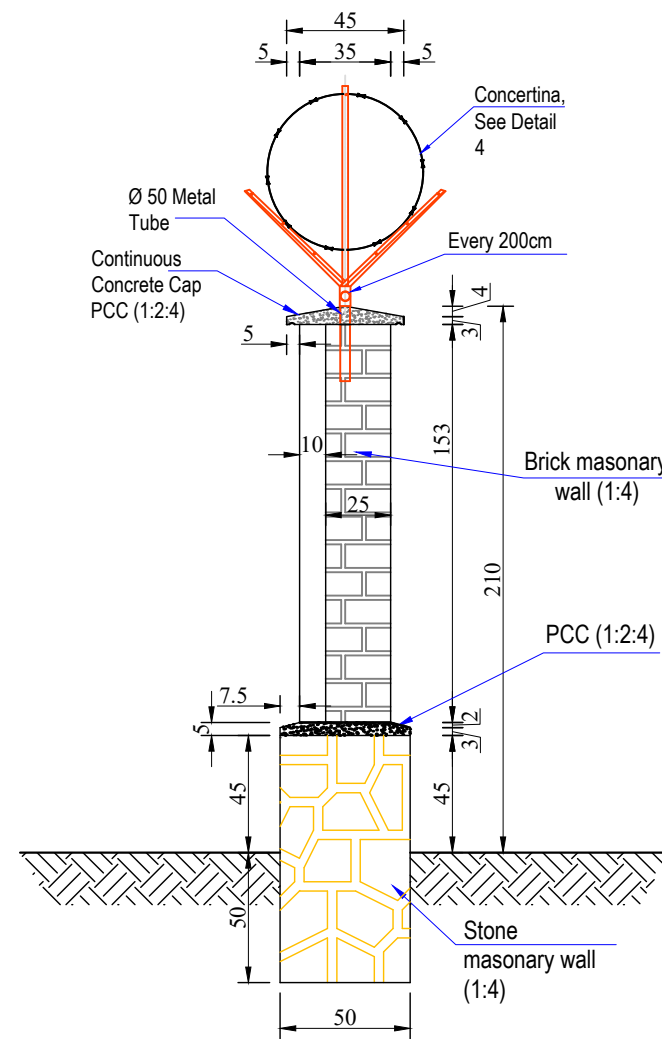
Province	Balkh
District	Charbolak
Village	Khoja Roshnayee

Date	Sep/2022
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Unit	Centimeters

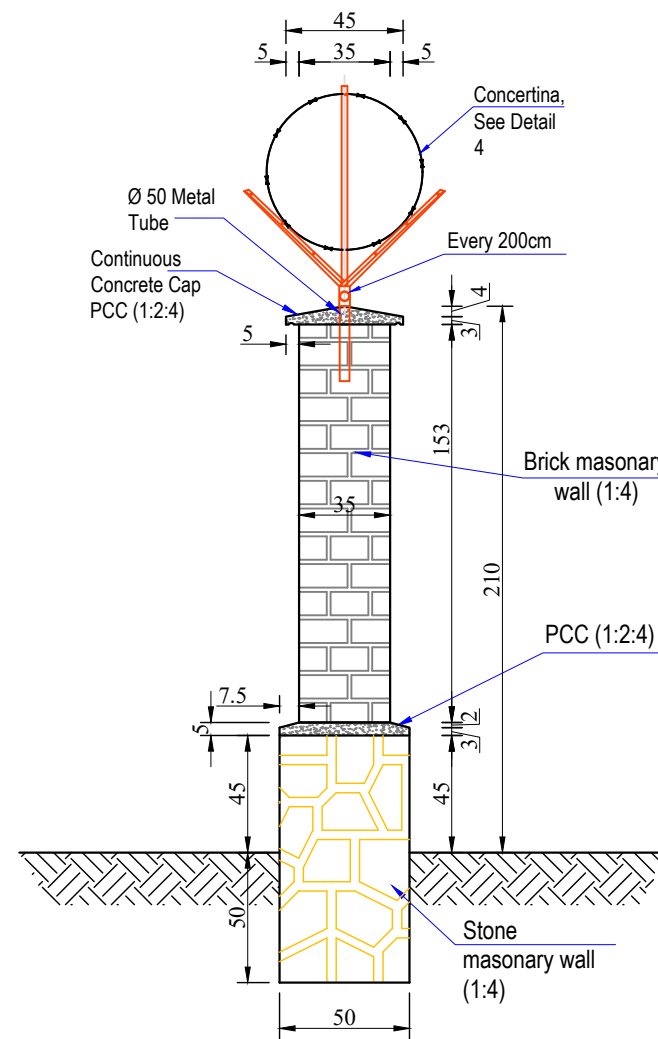
Drawing Title	Boundry Wall
Sheet Title	Boundry Wall Plan
Sheet #	-----



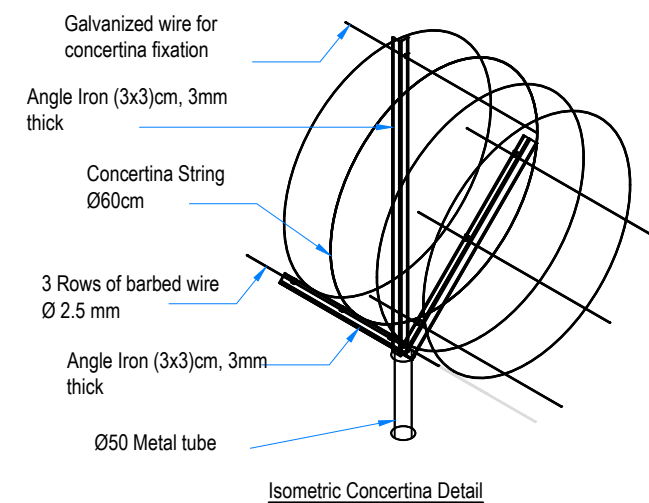
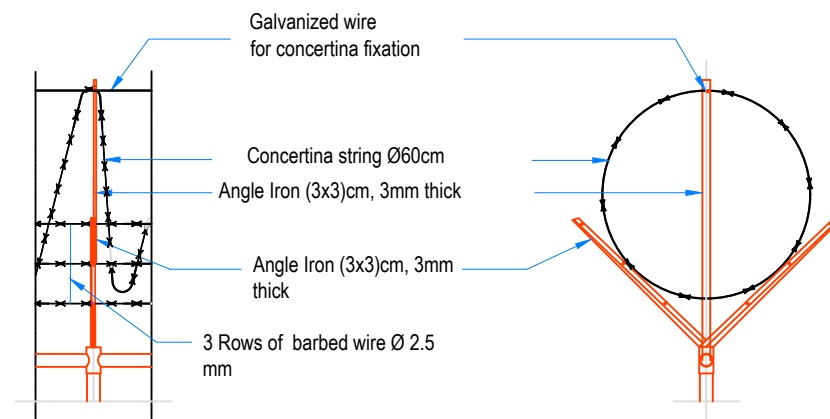
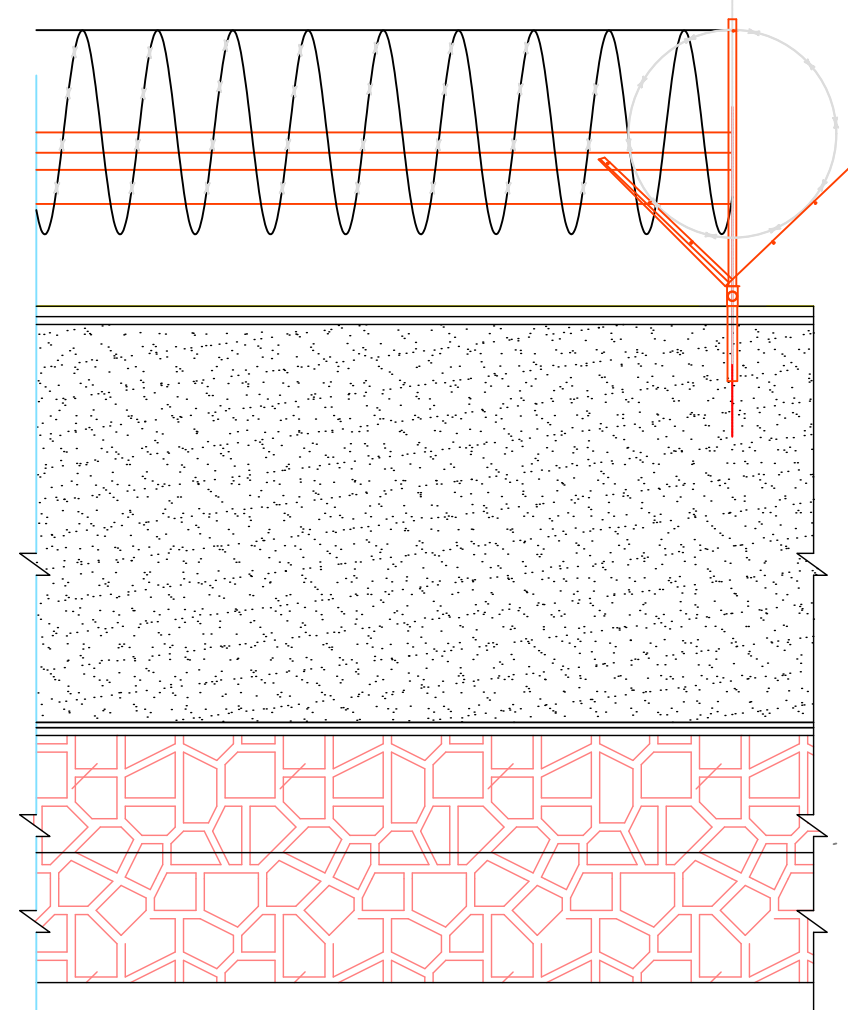




Section B-B



Section A-A



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INTERNATIONAL MEDICAL CORPS (IMC)  
PROGRAM DEPARTMENT  
WASH UNIT

Drafted and Design BY: **IMC/WASH Team**  
Review and Checked by: **Eng. Yousuf Mazhar**  
Review and Approved by: **Eng. Mohammad Yasir**

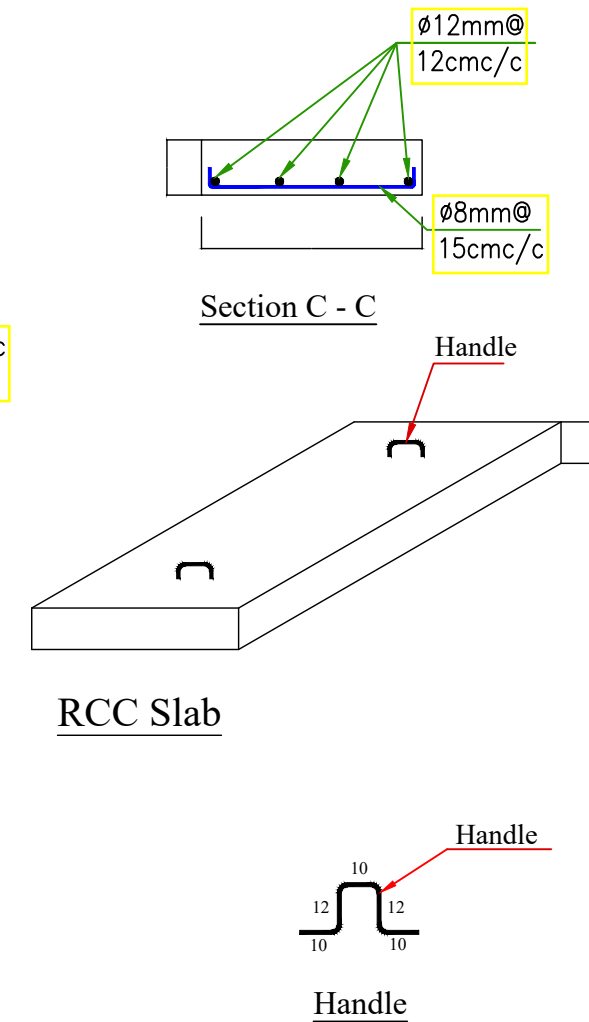
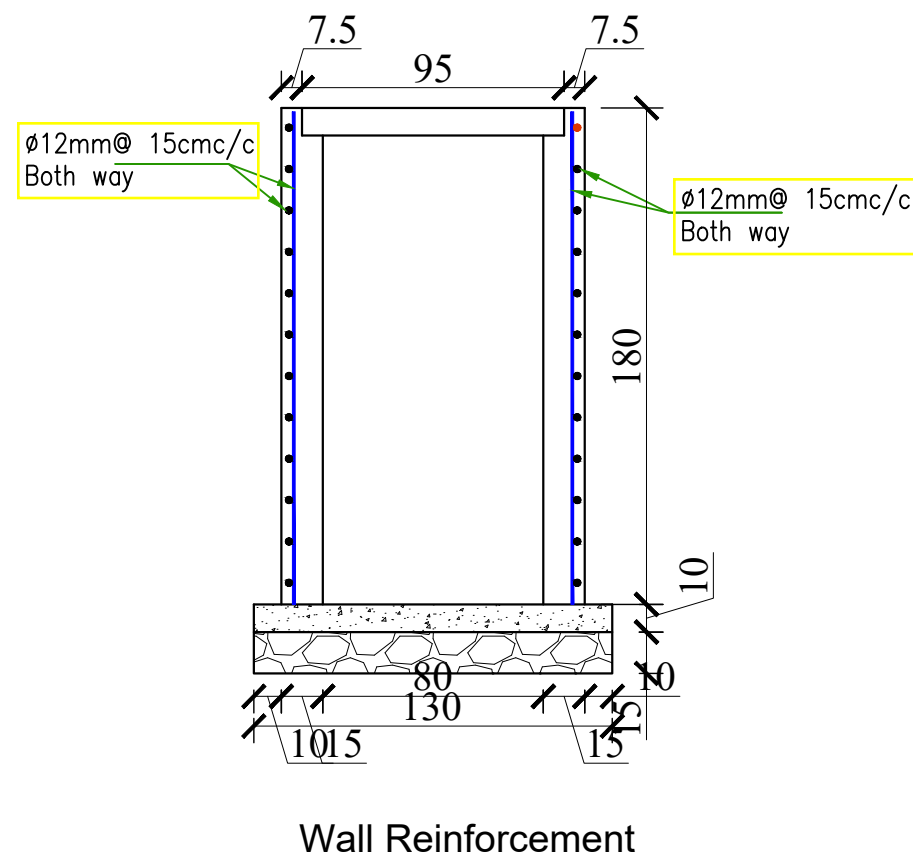
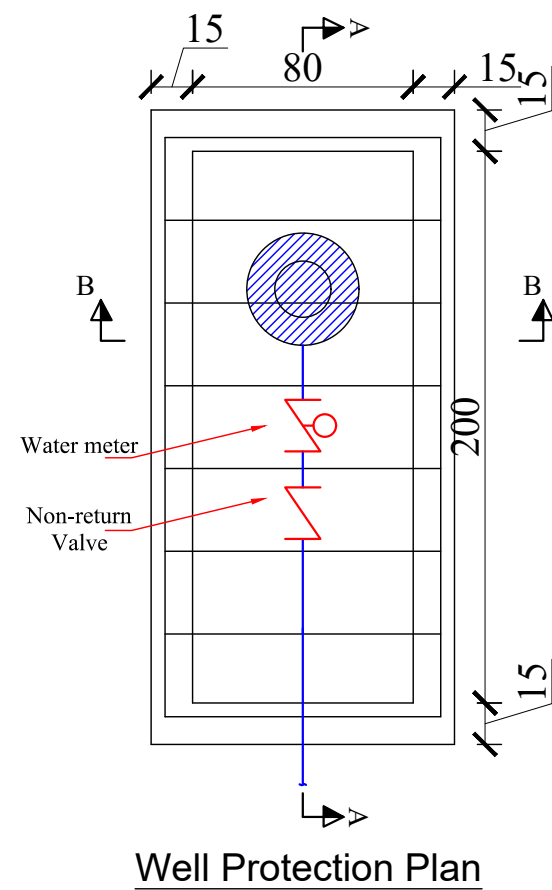
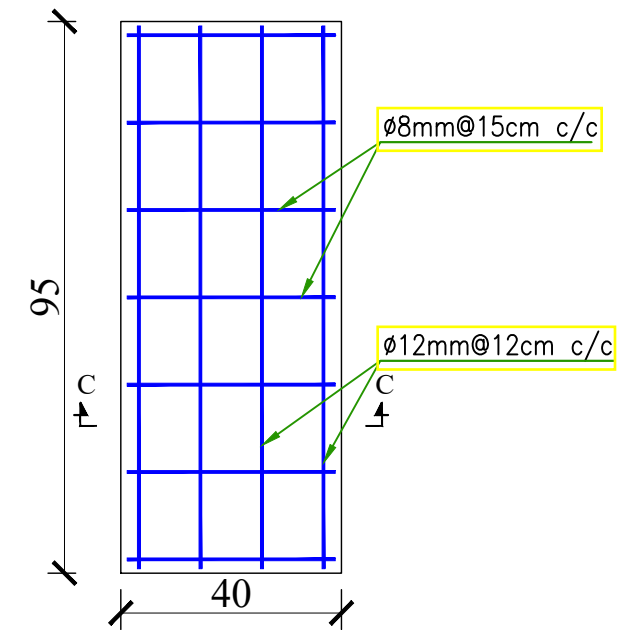
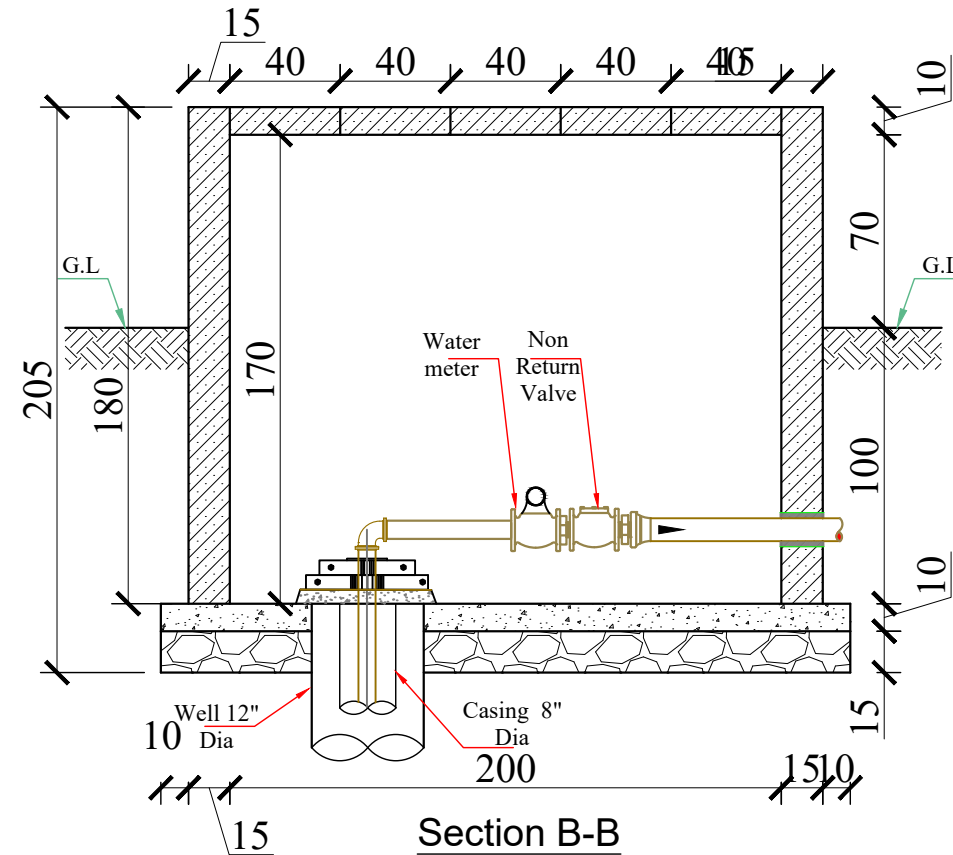
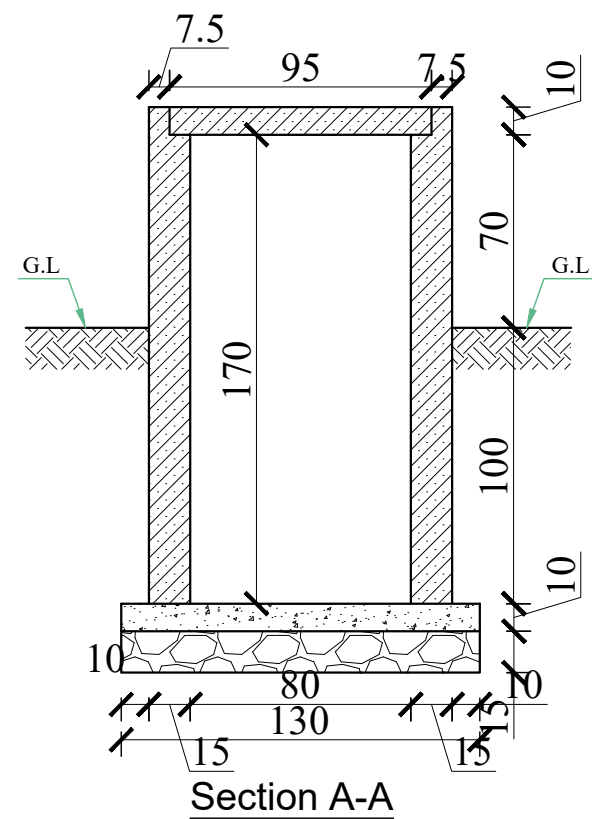
Province: **Balkh**  
District: **Charbolak**  
Village: **Khoja Roshnayee**

Date: **July/2022**  
Scale: **A3-Shown**  
Unit: **Centimeters**

Drawing Title: **Boundry Wall**  
Sheet Title: **Front View+Section**  
Sheet #: **-----**







Funded by: USAID/BHA

INTERNATIONAL MEDICAL CORPS (IMC)  
PROGRAM DEPARTMENT  
WASH UNIT

Drafted and Design BY: IMC/WASH Team

Review and Checked by: Eng. Yousuf Mazhar

Review and Approved by: Eng. Mohammad Yasir

Province: Balkh

District: Charbolak

Village: Khoja Roshnayee

Date: Sep/2022

Scale: A3-Shown

Unit: Centimeters

Drawing Title: Well Development

Sheet Title: Sections and details

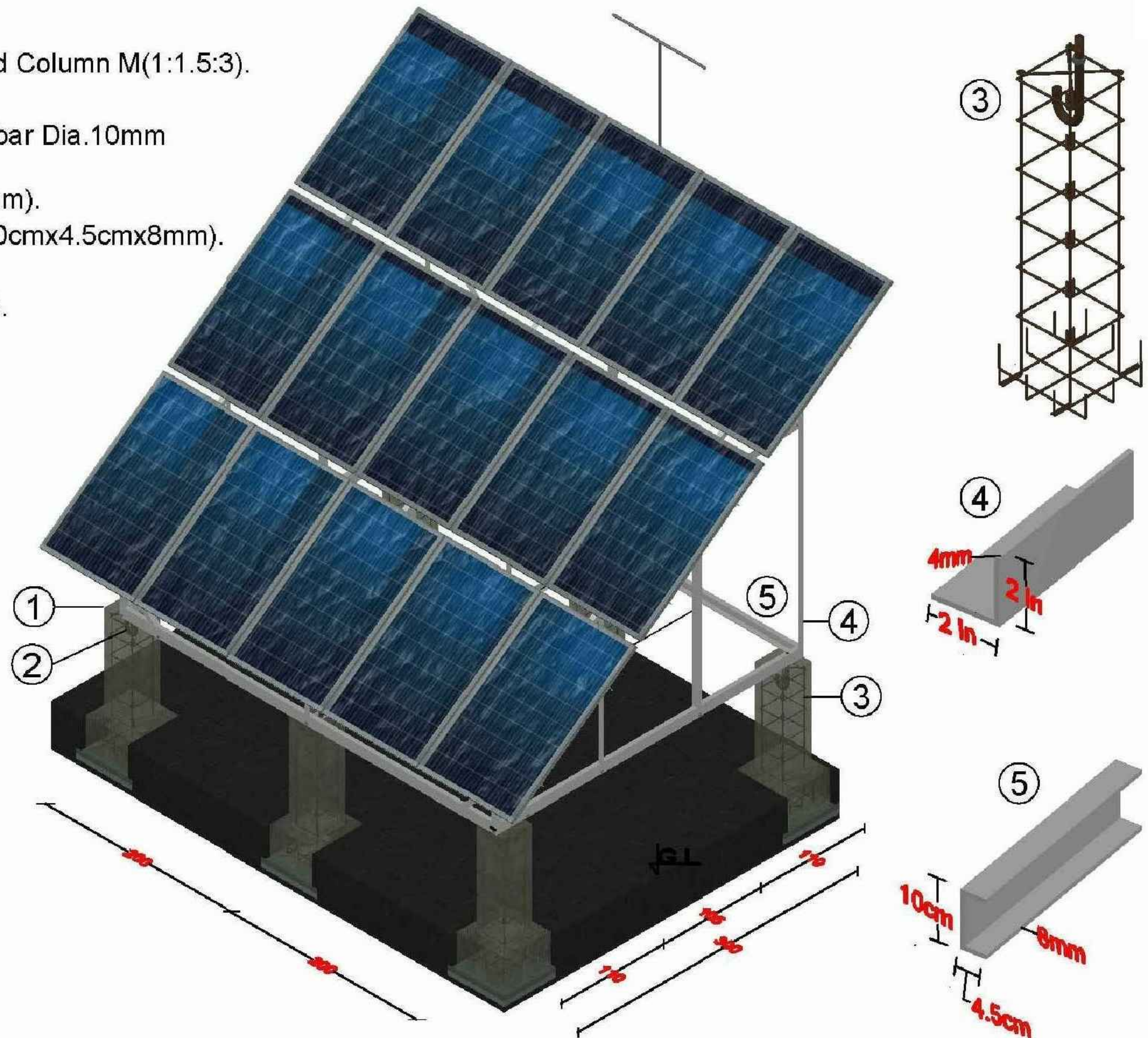
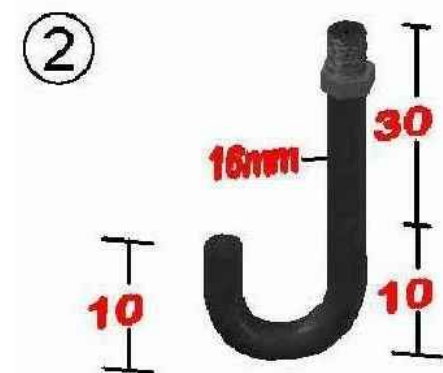
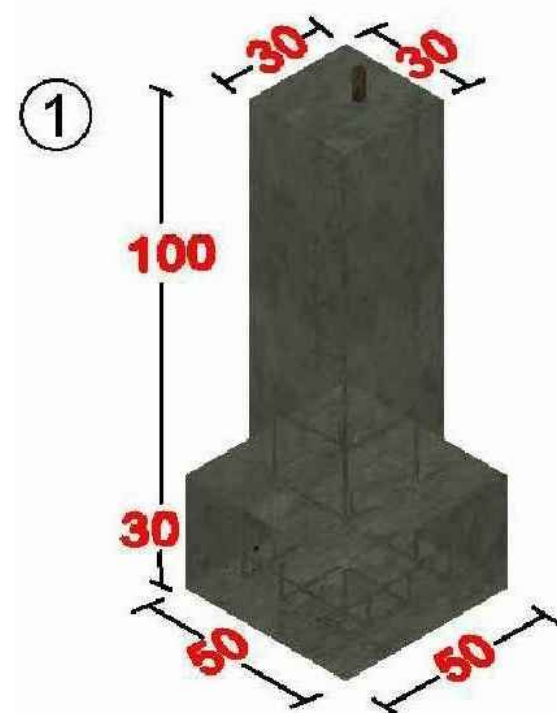
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## Note:

- 1-RCC Concrete Footing and Column M(1:1.5:3).
  - 2-J-Anchor Bolt 16mm.
  - 3-Deformed Grade 60 steel bar Dia.10mm according to drawing.
  - 4-Steel angle iron (2"x2"x4mm).
  - 5-Steel girder mini. sizing (10cmx4.5cmx8mm).
- PCC M(1:2:4).  
Foundation Compacted 95%.  
Potable water used.



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INTERNATIONAL MEDICAL CORPS (IMC)  
PROGRAM DEPARTMENT  
WASH UNIT

Drafted and Design BY: IMC/WASH Team  
Review and Checked by: Eng. Yousuf Mazhar  
Review and Approved by: Eng. Mohammad Yasir

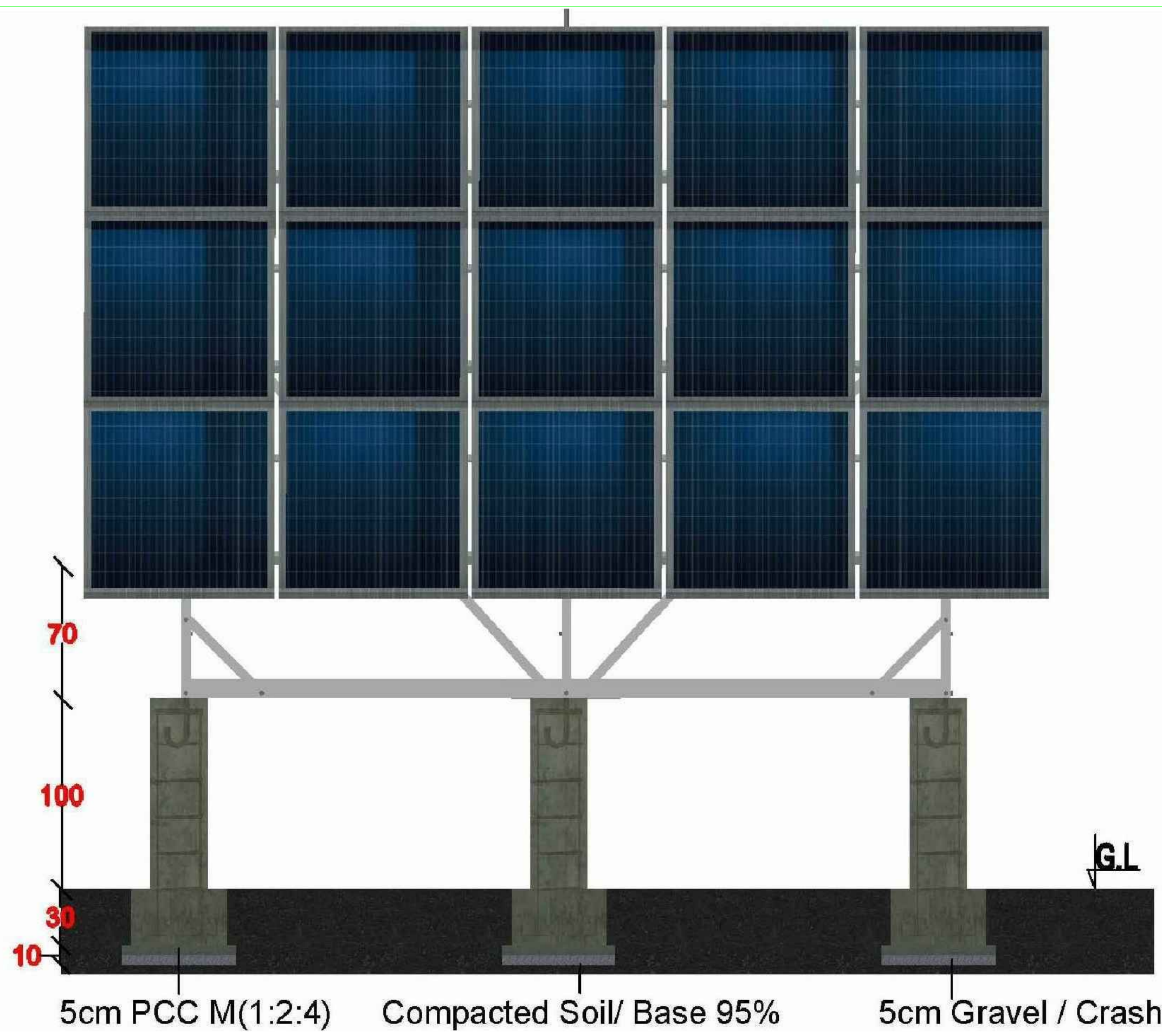
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District: Charbolak  
Village: Khoja Roshnayee

Date: Sep/2022  
Scale: A3-Shown  
Unit: Centimeters

Drawing Title: Solar Frame  
Sheet Title: Frame 3 D  
Sheet #: -----







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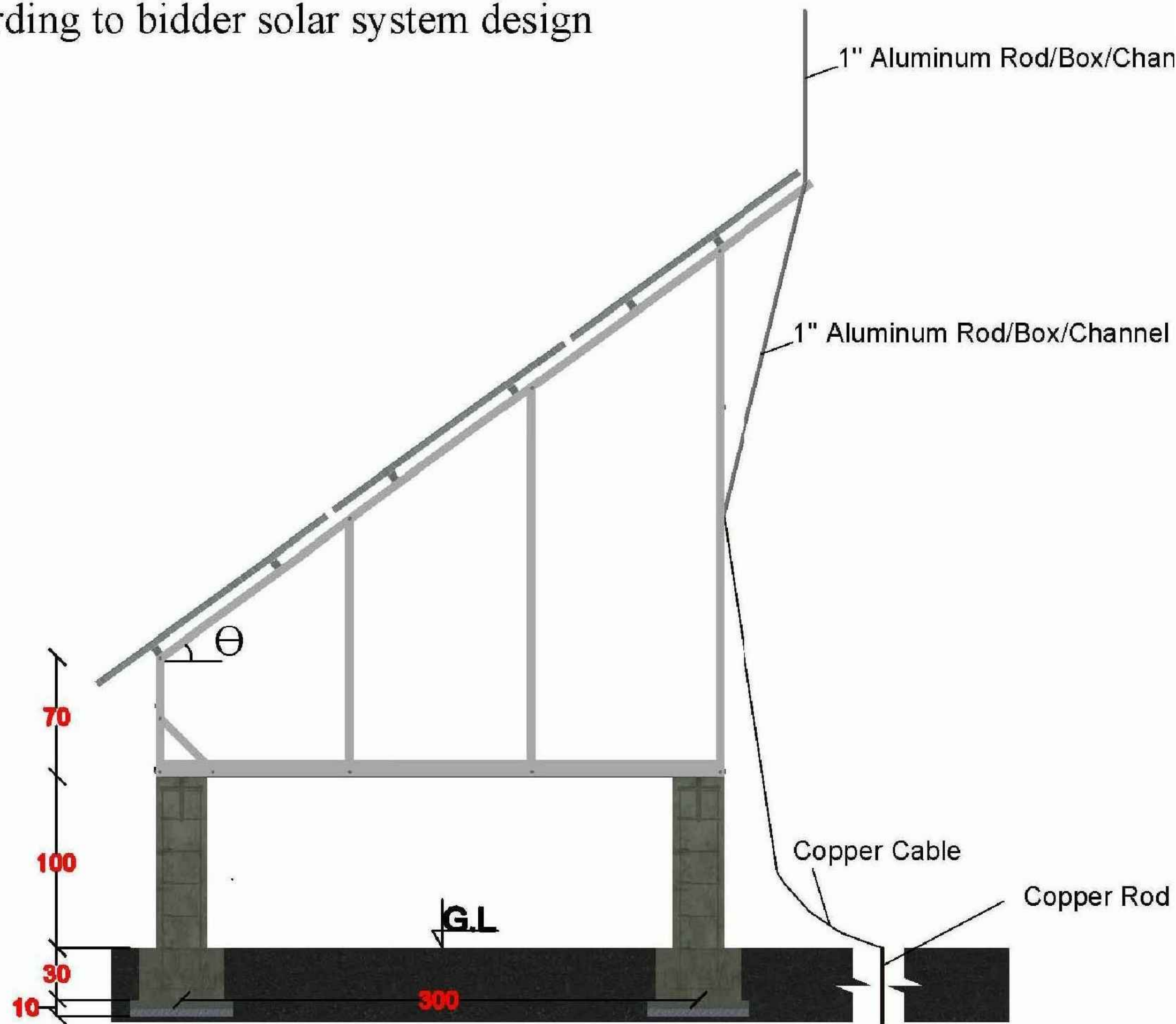
Date	Sep/2022
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Unit	Centimeters

Drawing Title	Solar Frame
Sheet Title	Fron View
Sheet #	-----





Angle  $\Theta$  = According to bidder solar system design



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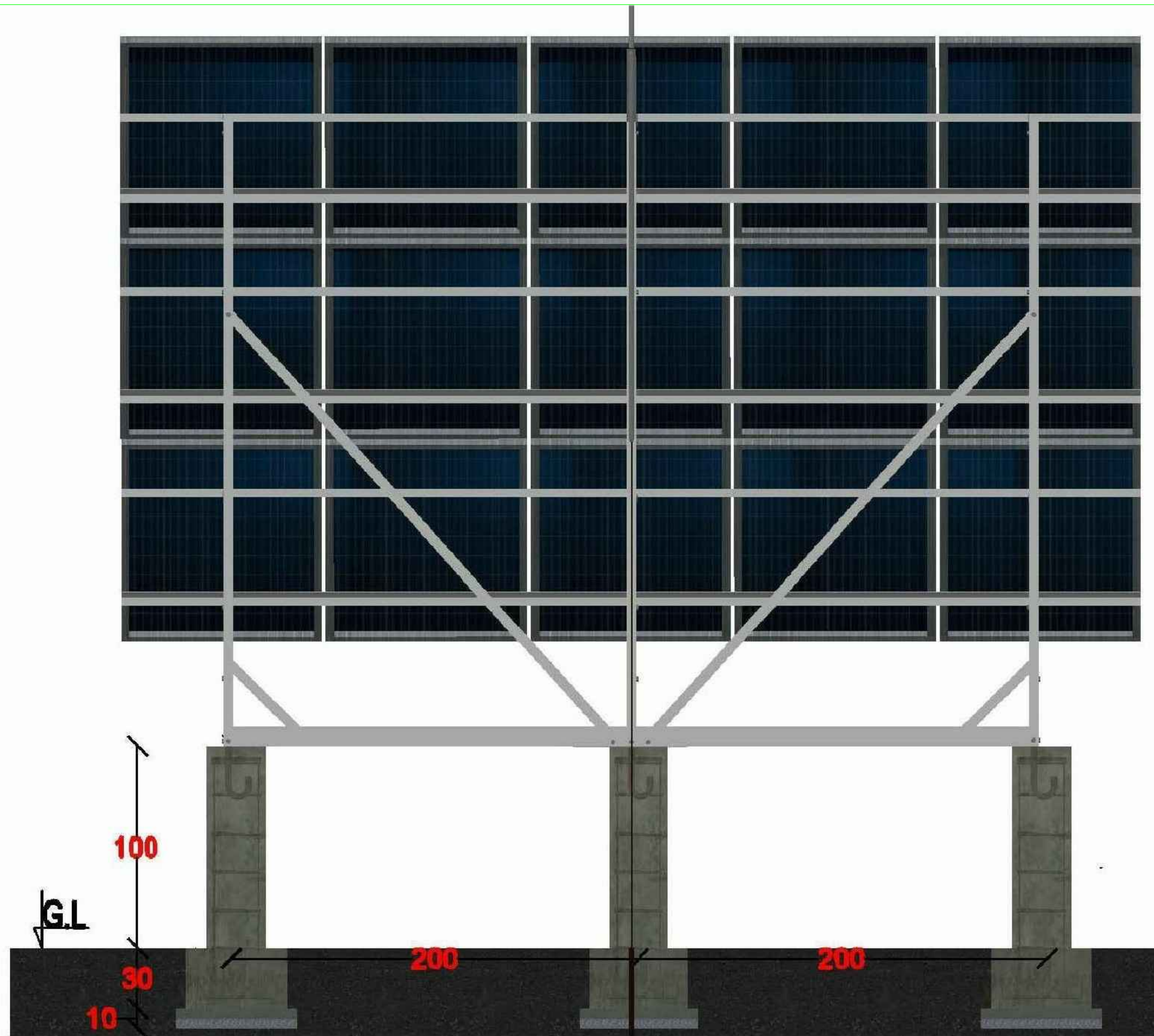
Province	Balkh
District	Charbolak
Village	Khoja Roshnayee

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Solar Frame
Sheet Title	Side View
Sheet #	-----







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Scale	A3-Shown
Unit	Centimeters

Drawing Title	Solar Frame
Sheet Title	Back View
Sheet #	-----

