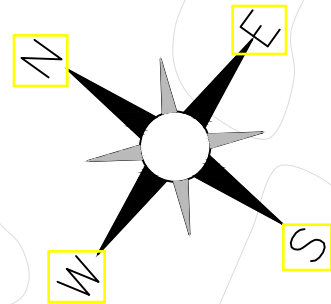


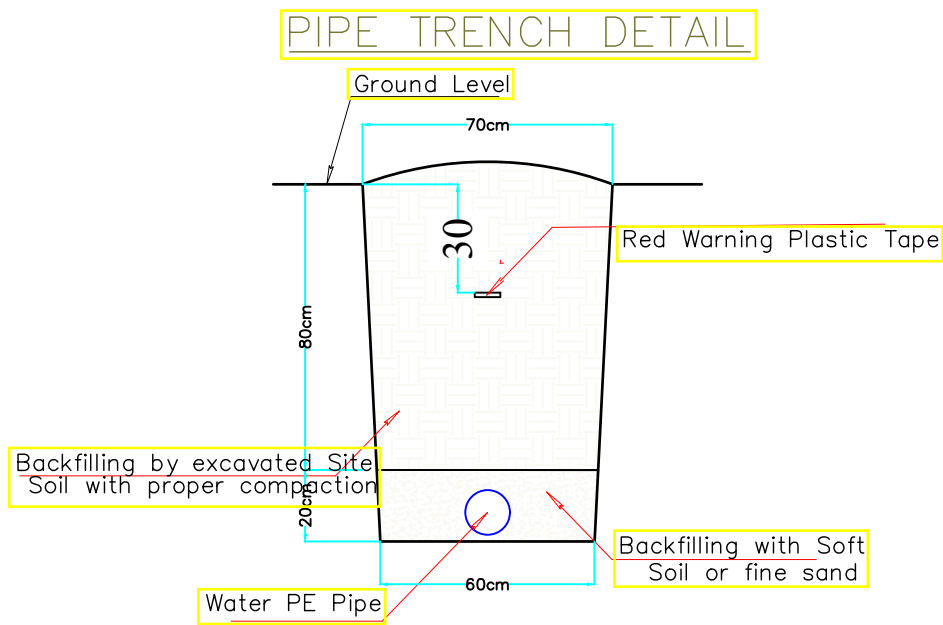
INTERNATIONAL MEDICAL CORPS  
WASH PROGRAM  
ASFAHN SOLAR POWERED WATER SUPPLY SYSTEM



Key Plan

Stand Post information				
Tp #	House Hold Name	Tap coordinates		
		X (m)	Y (m)	Elevation (m)
1	Zaman	320031.61	4084454.54	321.59
2	Razmuhammad	319829.62	4084576.43	323.03
3	Babaabdul	319903.12	4084754.34	322.91
4	Yaqubshah	319896.99	4084857.32	322.90
5	Malim muzaffar	319972.59	4084936.75	324.02
6	Muhammad rafi	320069.17	4084834.32	322.47
7	Aman	320136.13	4084822.67	322.22
8	Masjid jami	319984.19	4084971.28	323.26
9	Haji amir	320025.68	4085044.97	323.13
10	seediq	320128.95	4085188.72	323.19
11	juma khan	320203.44	4085181.90	323.22
12	Aartuq	320224.57	4085302.15	324.29
13	Masjid asfahan	320301.49	4085379.57	323.70
14	Nurmuhammad	320522.35	4085514.24	323.20
15	Abad	320110.23	4085016.34	323.27
16	lalmuhammad	320200.83	4084945.43	321.84
17	Razmuhammad	320245.07	4084996.21	323.05
18	khalmurad	320284.06	4085071.70	322.84
19	Yarmuhammad	320323.76	4085155.99	322.60
20	Nurllah	320309.68	4085311.75	323.46
21	Haji feda	320394.25	4085251.86	322.22
22	Aman shah	320466.63	4085234.05	322.60
23	Amankhan	320440.63	4085298.41	323.14
24	Nasruddin	320528.50	4085342.14	323.59
25	Jamal	320069.85	4085105.05	324.37
26	Haji Abdu	320095.03	4085175.56	324.21

Project Name	Asfahn Village Water Solar Operated HH Pipe Scheme			BHA/IMC
Designed by	IMCWASH-TEAM			Date
Checked/Reviewed by	ENG.M.YOUSUF_MAZHAR			SEP/2022
Approved by	HQ, Syed Yasir Ahmad			
Province	Balkh			Scale
District	Balkh			HORIZONTAL_ALIGNMENT
Village/CDC	Asfahan			
DRAWING#1			Edition	Sheet
			1ST_VERSION	SHEET_1



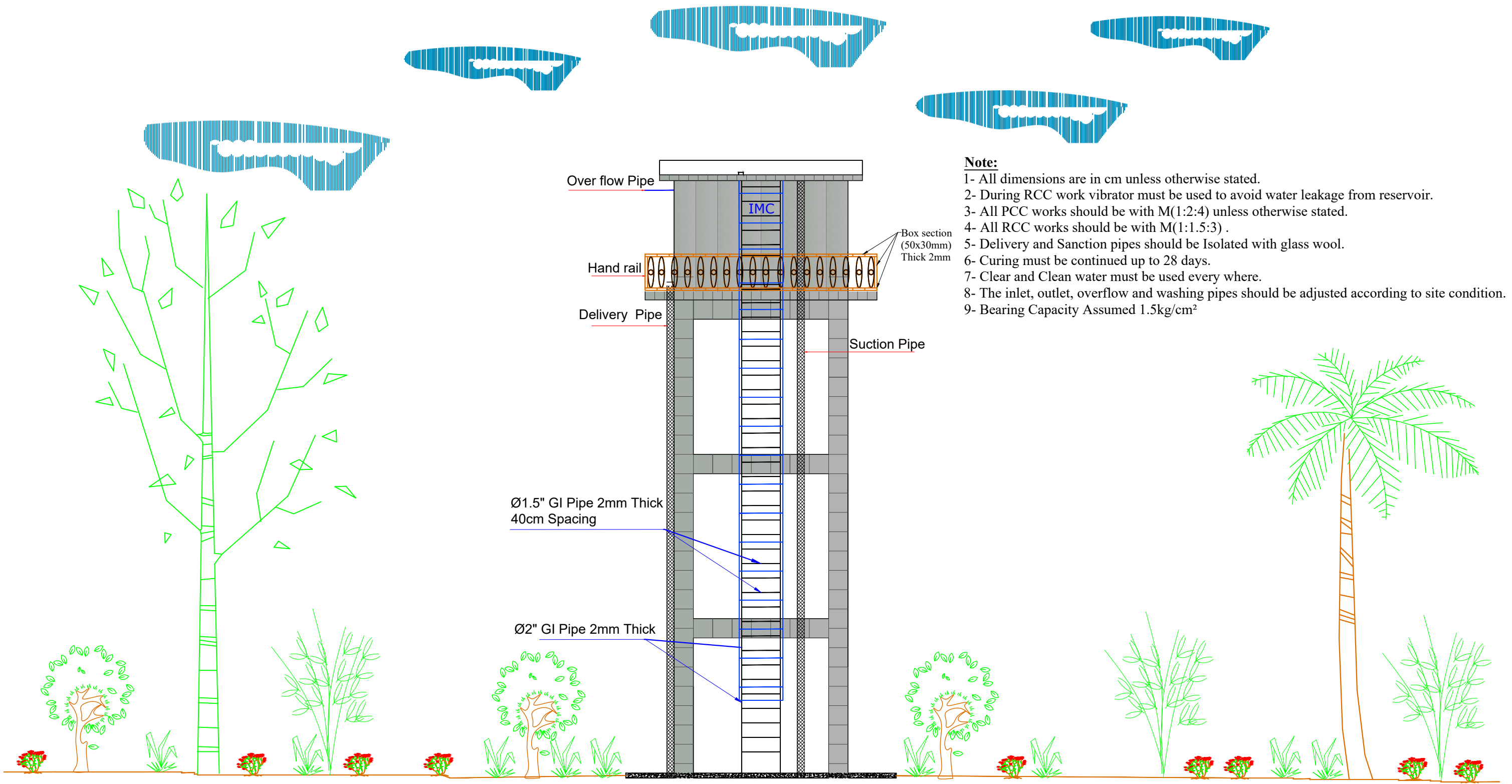
Infrastructures Location				
S/N	Feature Name	Easting (M)	Northing (M)	Elevation (m)
1	Water Well	320,014.22	4,084,987.37	323
2	Water Tank	320,013.65	4,084,967.99	323

- Note:**
- The unit used for length is meter and for diameter is (").
  - HDPE-100 Pipe 16 Bar used for Ø20, Ø25 and Well-Tank pipes, and the HDPE-PE100, 10 Bars is using for larger sizes of the pipes, from Ø32 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, therefor 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

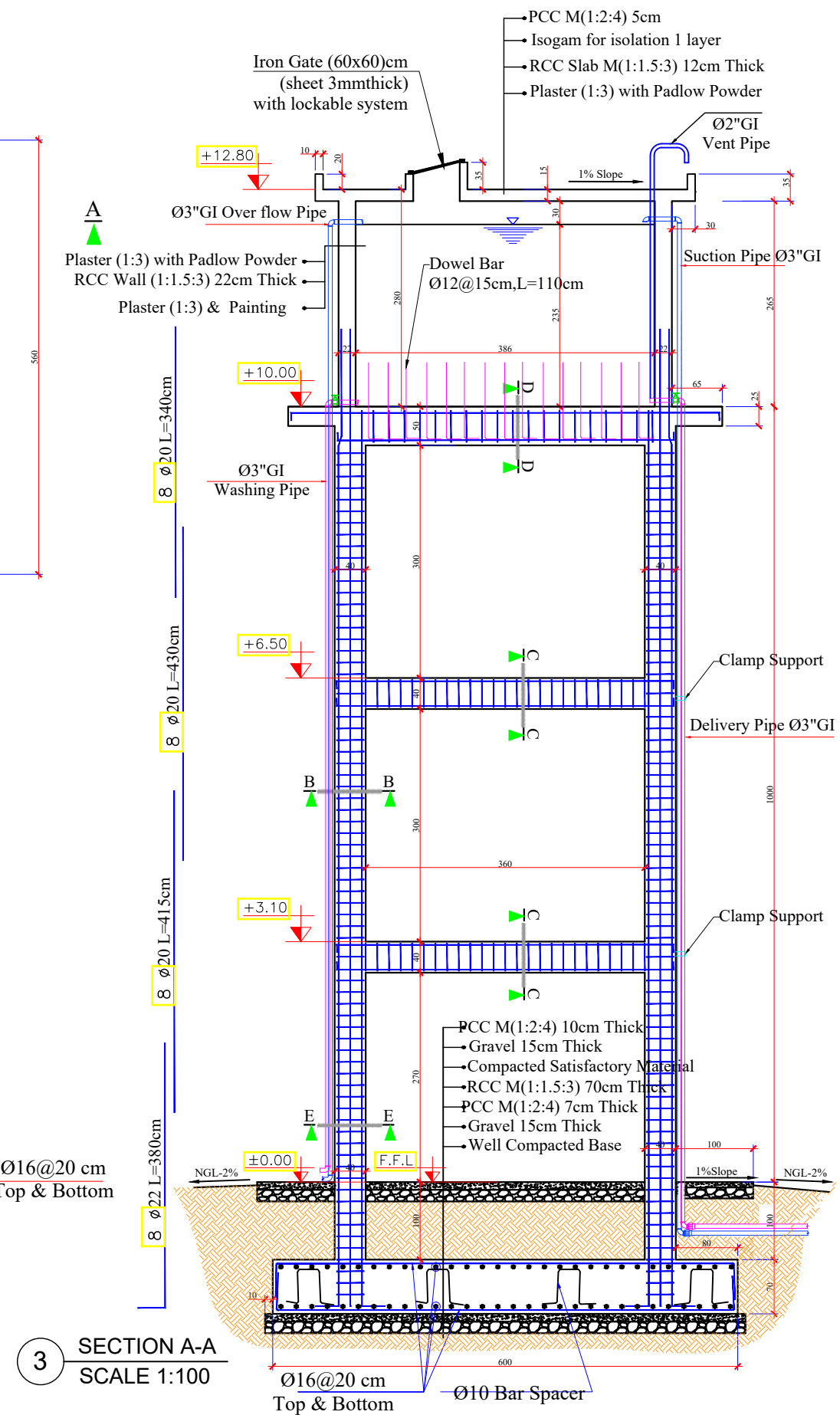
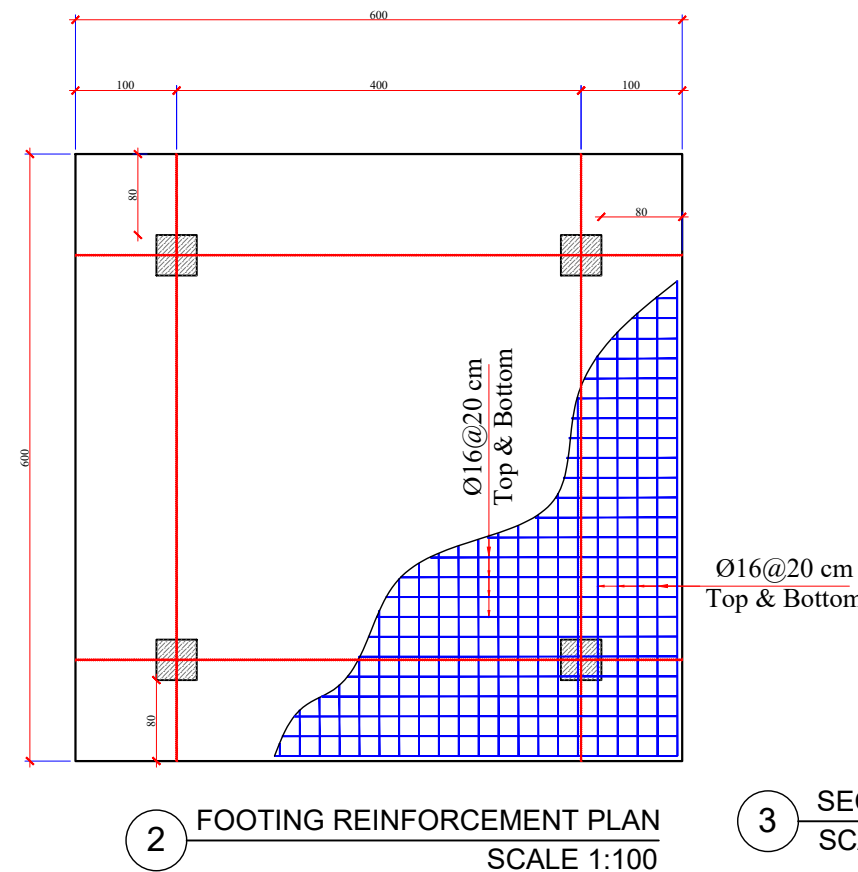
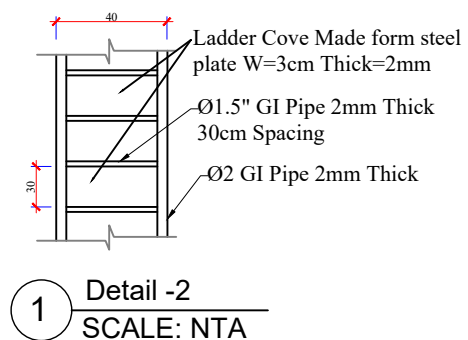
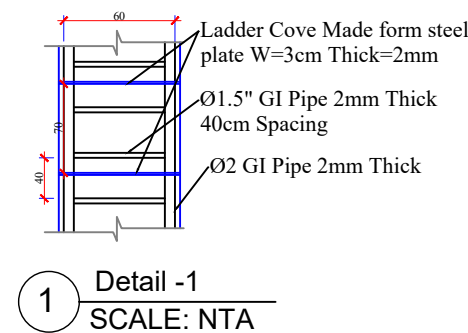
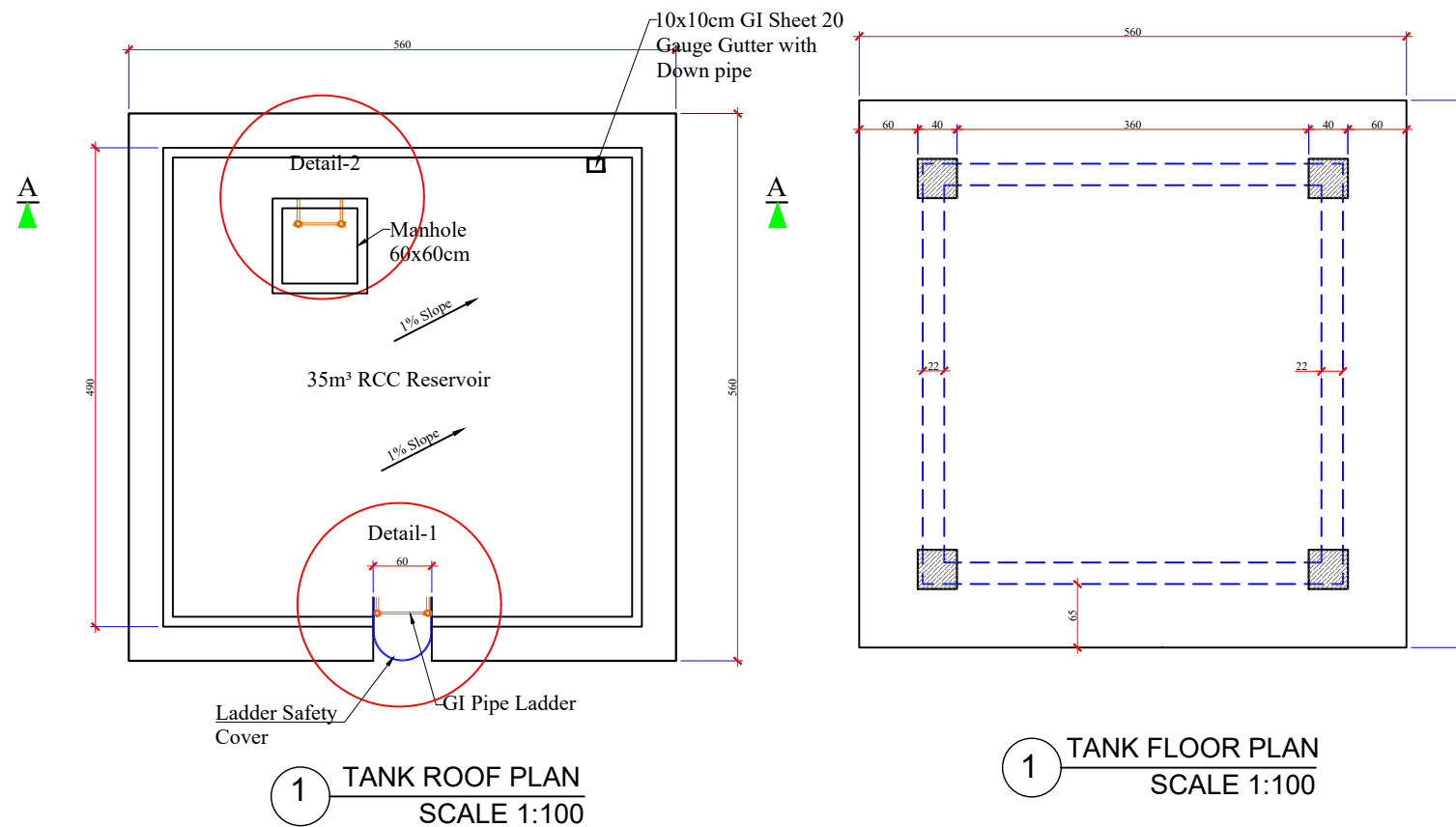




- Note:**
- 1- All dimensions are in cm unless otherwise stated.
  - 2- During RCC work vibrator must be used to avoid water leakage from reservoir.
  - 3- All PCC works should be with M(1:2:4) unless otherwise stated.
  - 4- All RCC works should be with M(1:1.5:3) .
  - 5- Delivery and Sanction pipes 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>

Elevation of Elevated Water Tank

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



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: **Balkh**

Village: **Asfahan**

Date: **Sep/2022**

Scale: **A3-Shown**

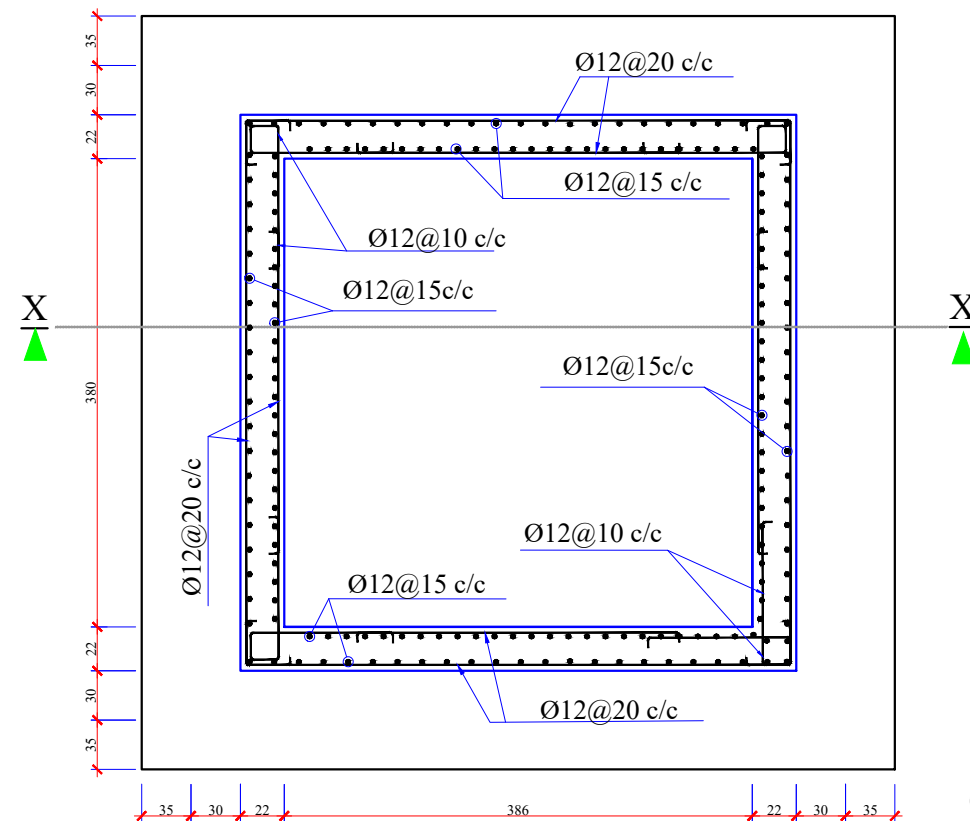
Unit: **Centimeters**

Drawing Title: **Elevated 35 M3 Tank**

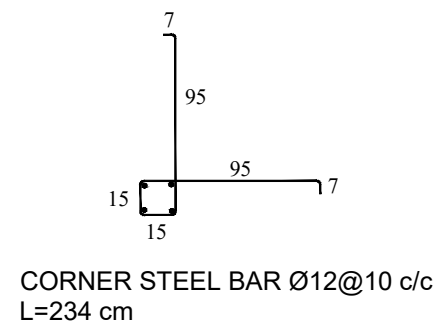
Sheet Title: **Sections**

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



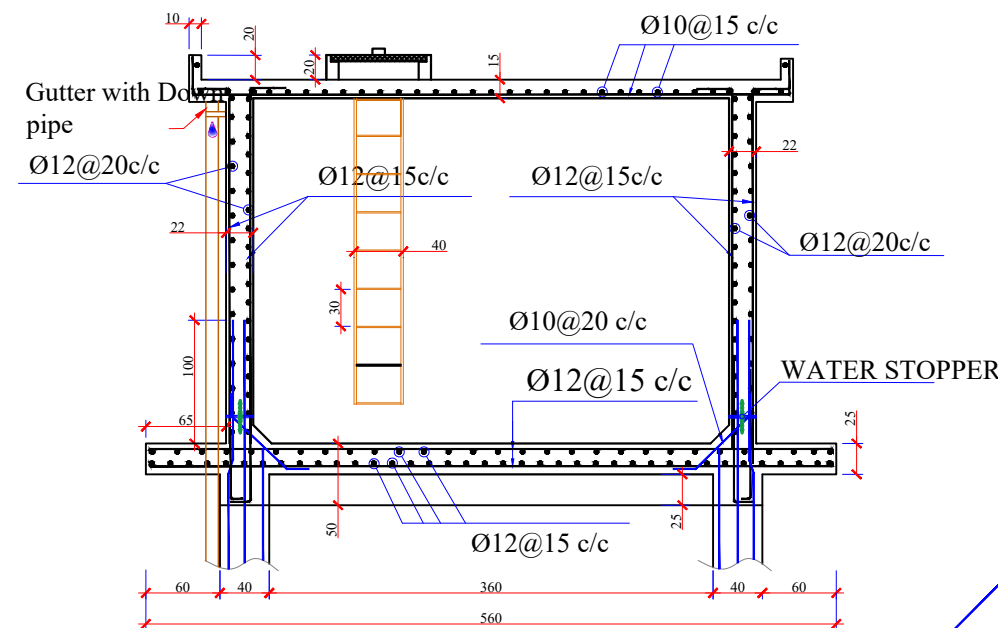


1 PLAN REINFORCEMENT  
SCALE 1:100



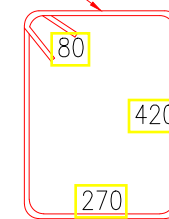
**Note:**

- 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>



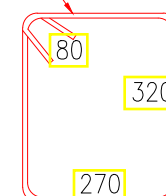
3 SECTION X-X  
SCALE 1:100

Ø8@15c/c



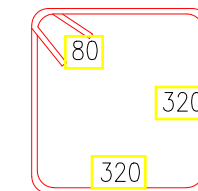
8Ø20

Ø8@15c/c



6Ø20

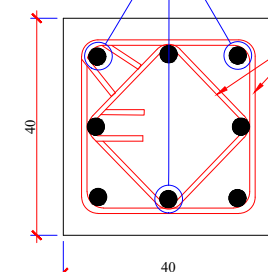
Ø8@10 c/c



8Ø20

8Ø22

Ø8@10 c/c



4 SECTION D-D  
SCALE 1:100

5 SECTION C-C  
SCALE 1:100

6 SECTION B-B  
SCALE 1:100

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.

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

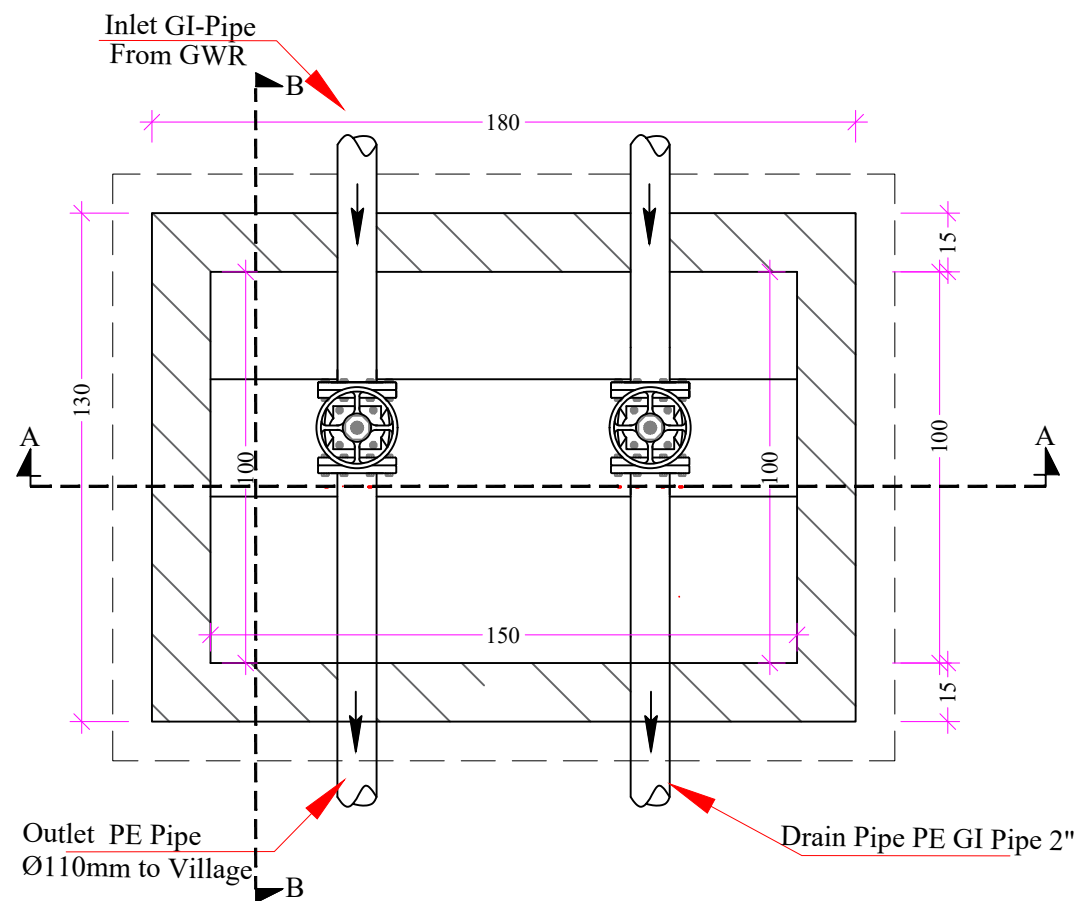
Drafted and Design BY: IMC/WASH Team  
Review and Checked by: Eng. Yousuf Mazhar  
Review and Approved by: Eng. Mohammad Yasir

Province: Balkh  
District: Balkh  
Village: Asfahan

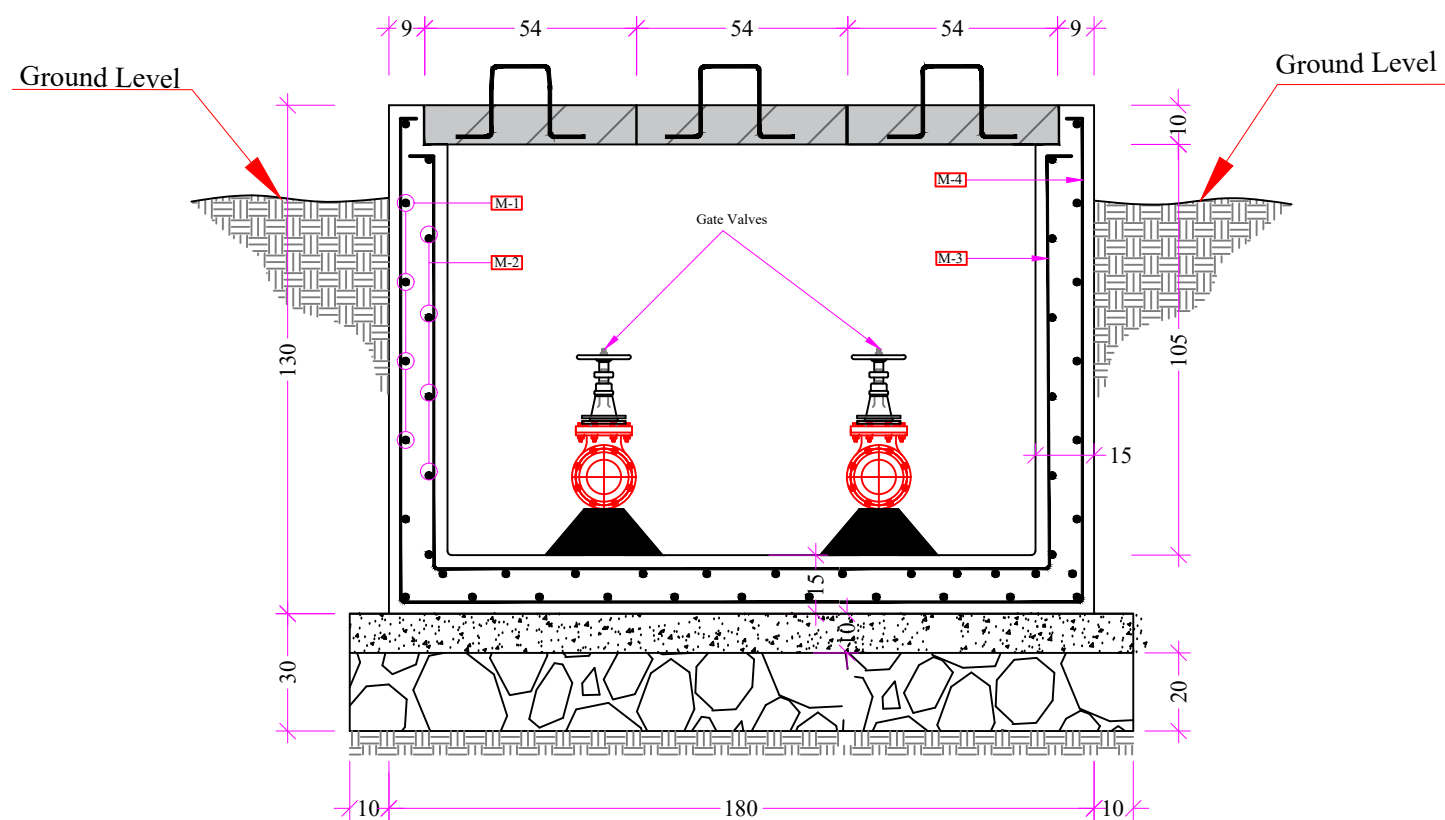
Date: Sep/2022  
Scale: A3-Shown  
Unit: Centimeters

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

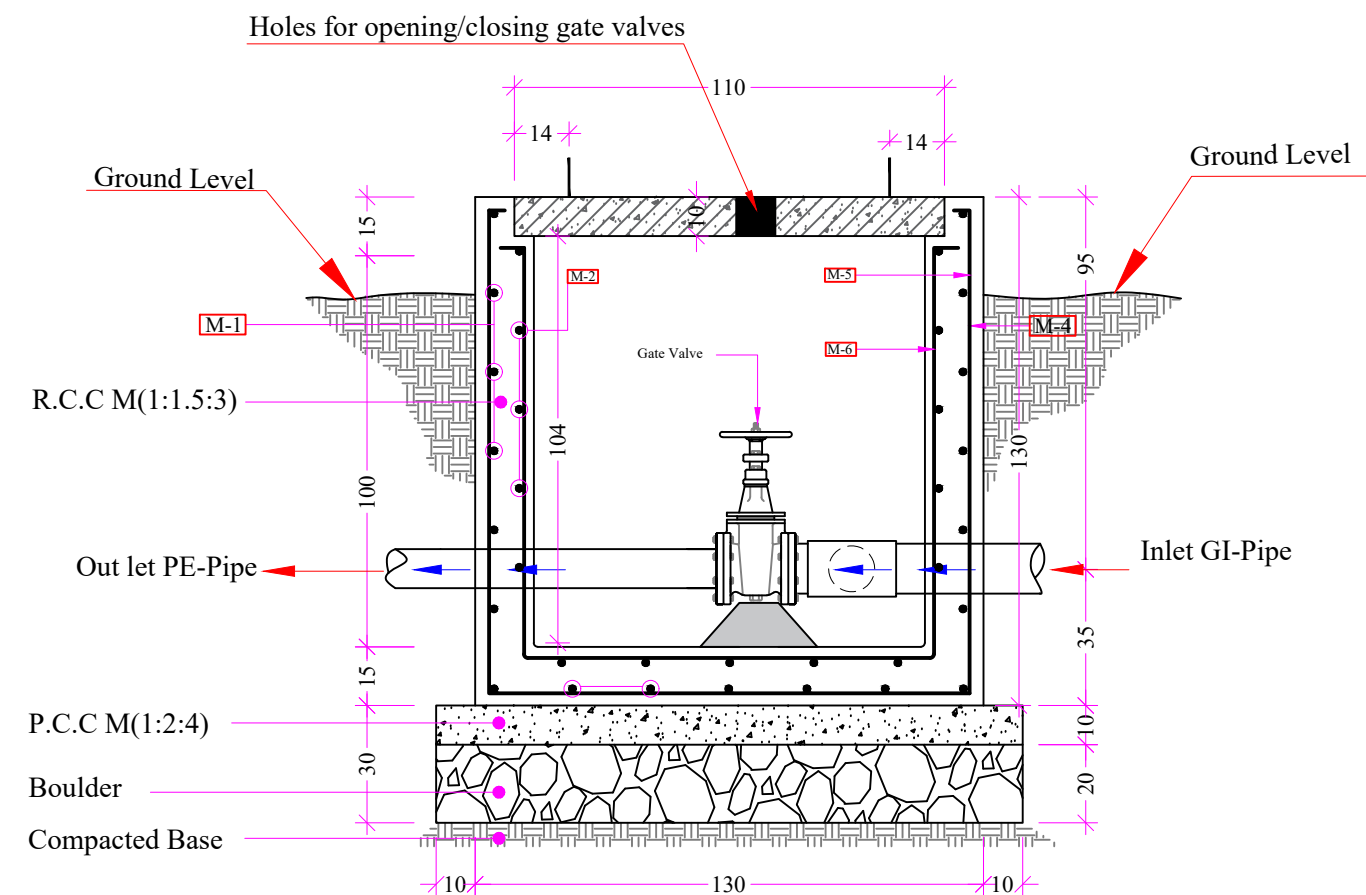




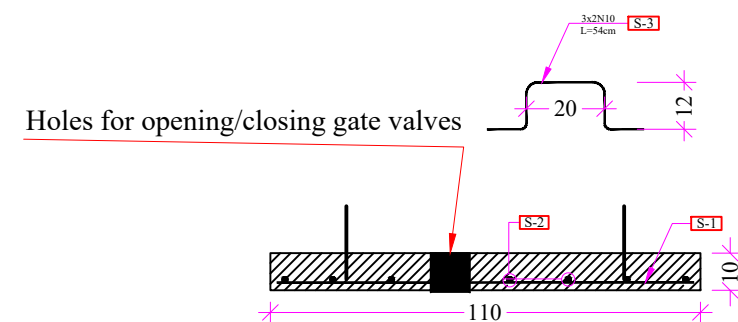
PLAN



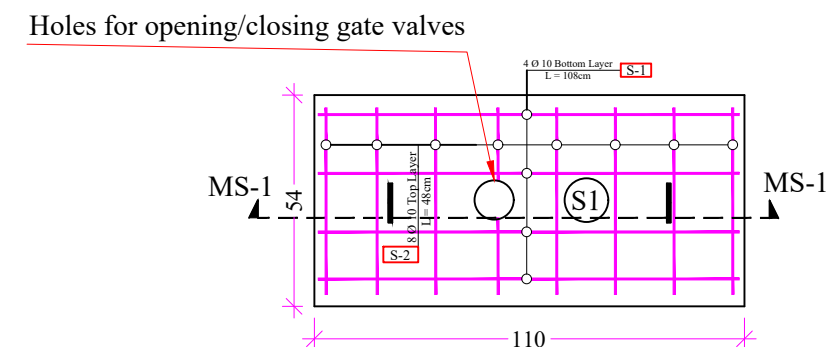
SECTION A-A



SECTION B-B



SECTION MS1-MS1



RCC SLAB PLAN

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

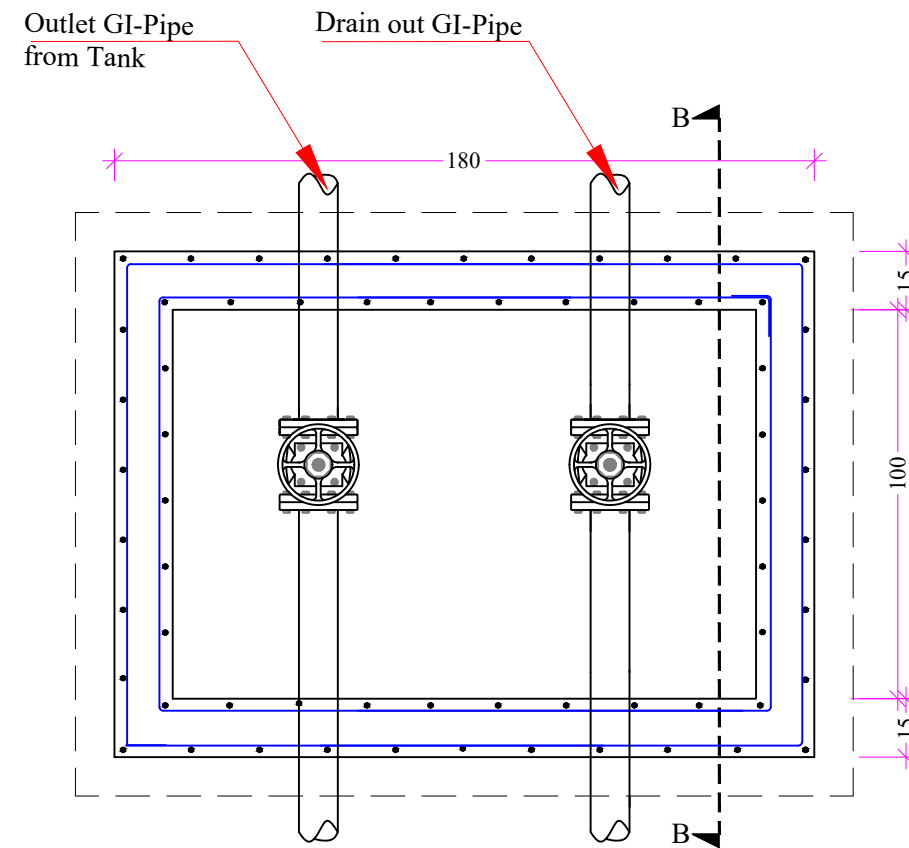
Drafted and Design BY: IMC/WASH Team  
Review and Checked by: Eng. Yousuf Mazhar  
Review and Approved by: Eng. Mohammad Yasir

Province: Balkh  
District: Balkh  
Village: Asfahan

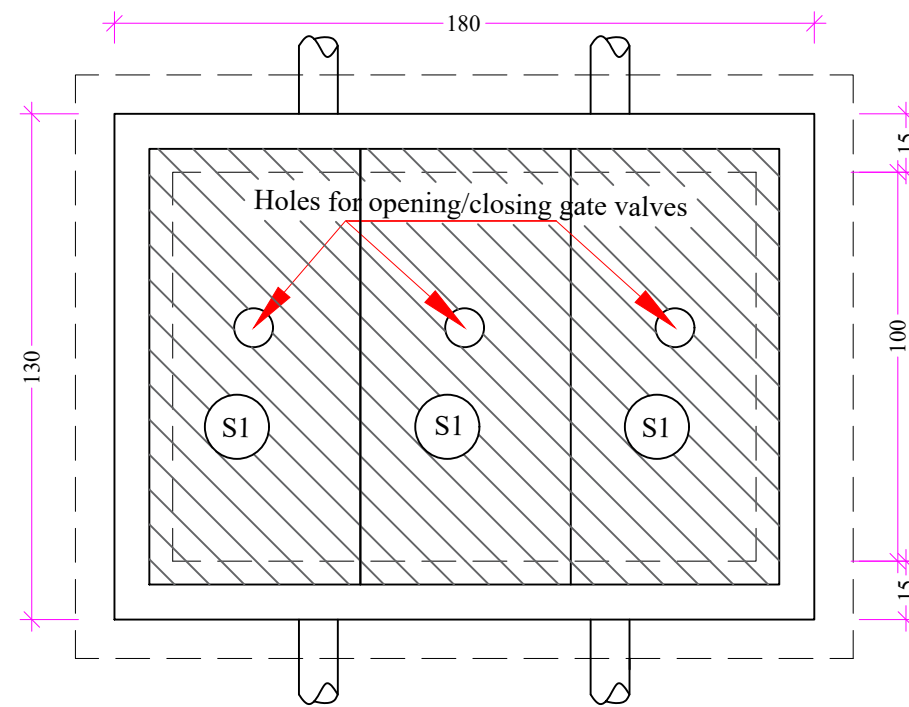
Date: Sep/2022  
Scale: A3-Shown  
Unit: Centimeters

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

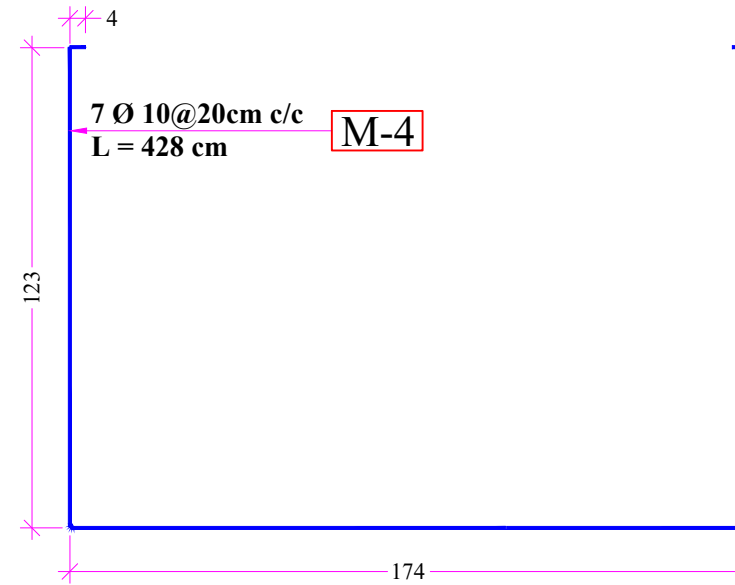




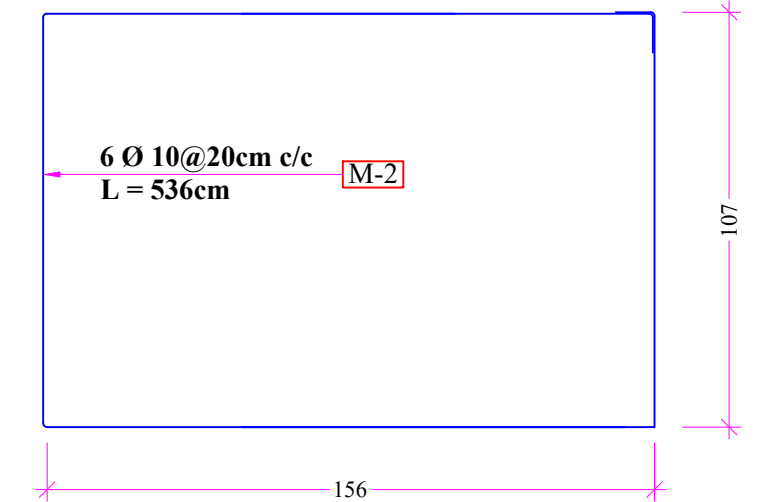
SECTIONAL PLAN OF RCC WALLS



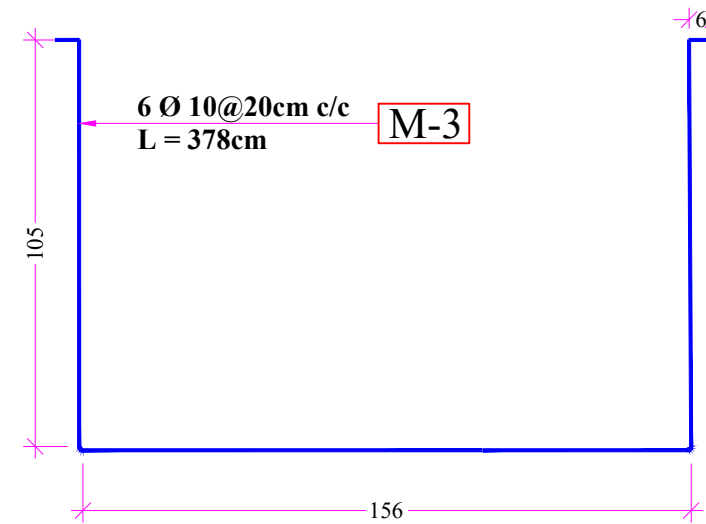
TOP VIEW



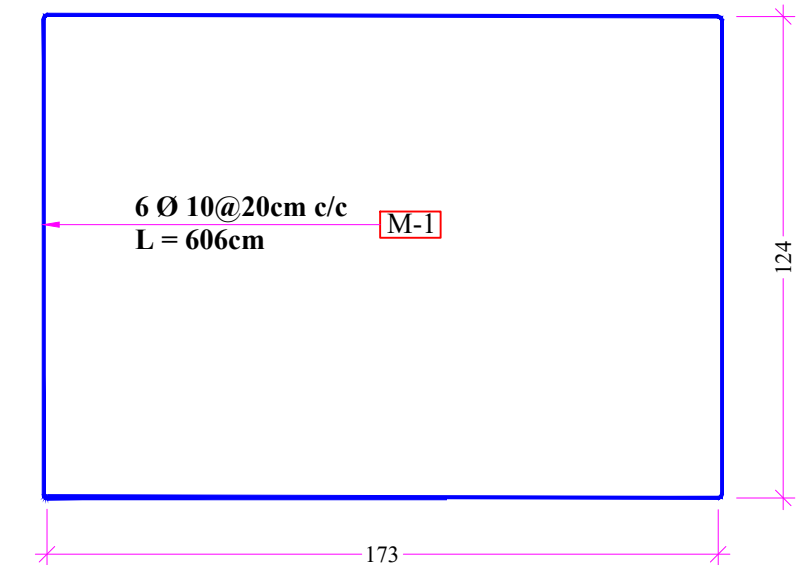
M-4



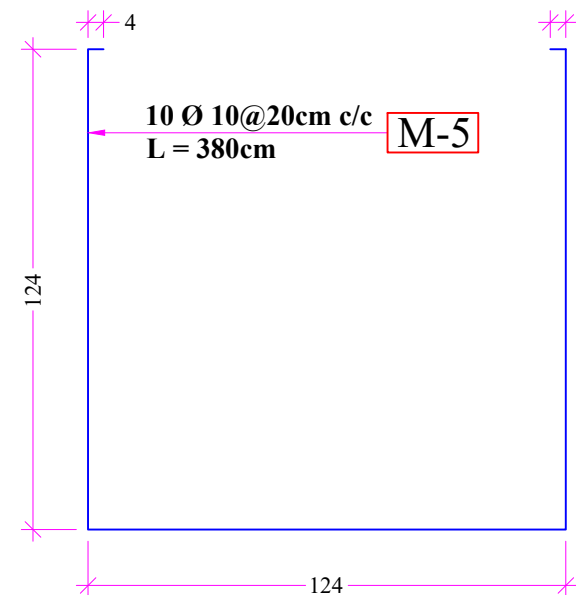
M-2



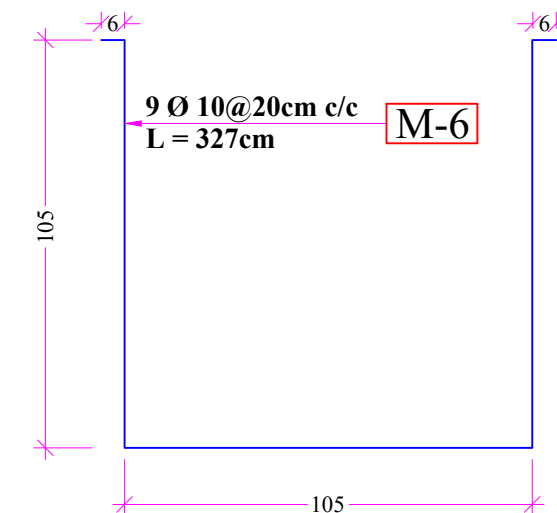
M-3



M-1



M-5



M-6

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

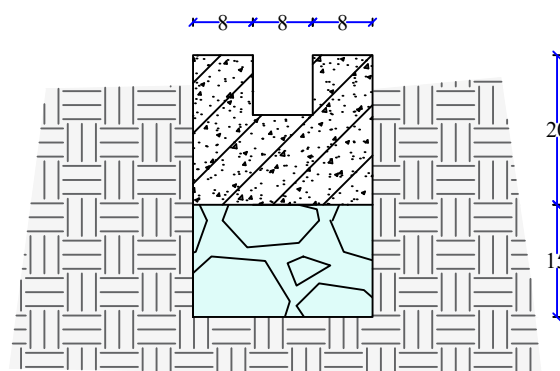
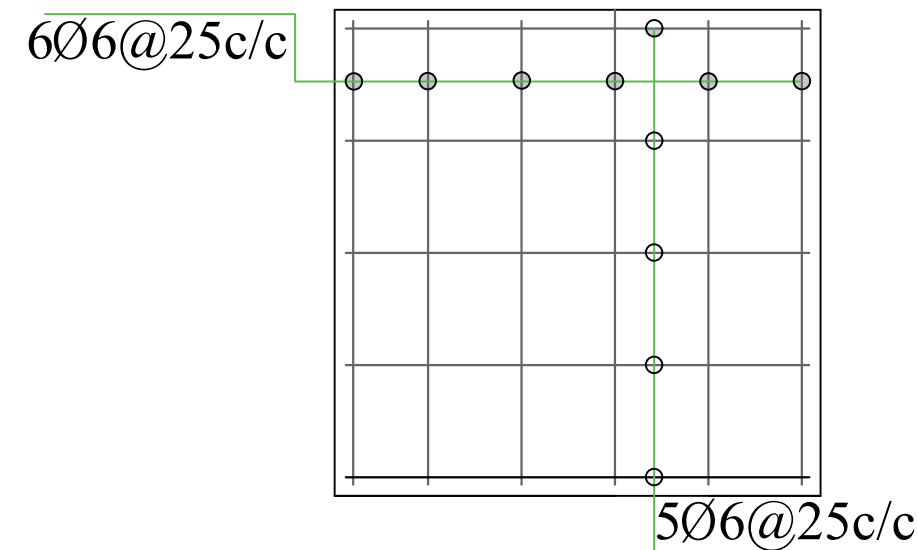
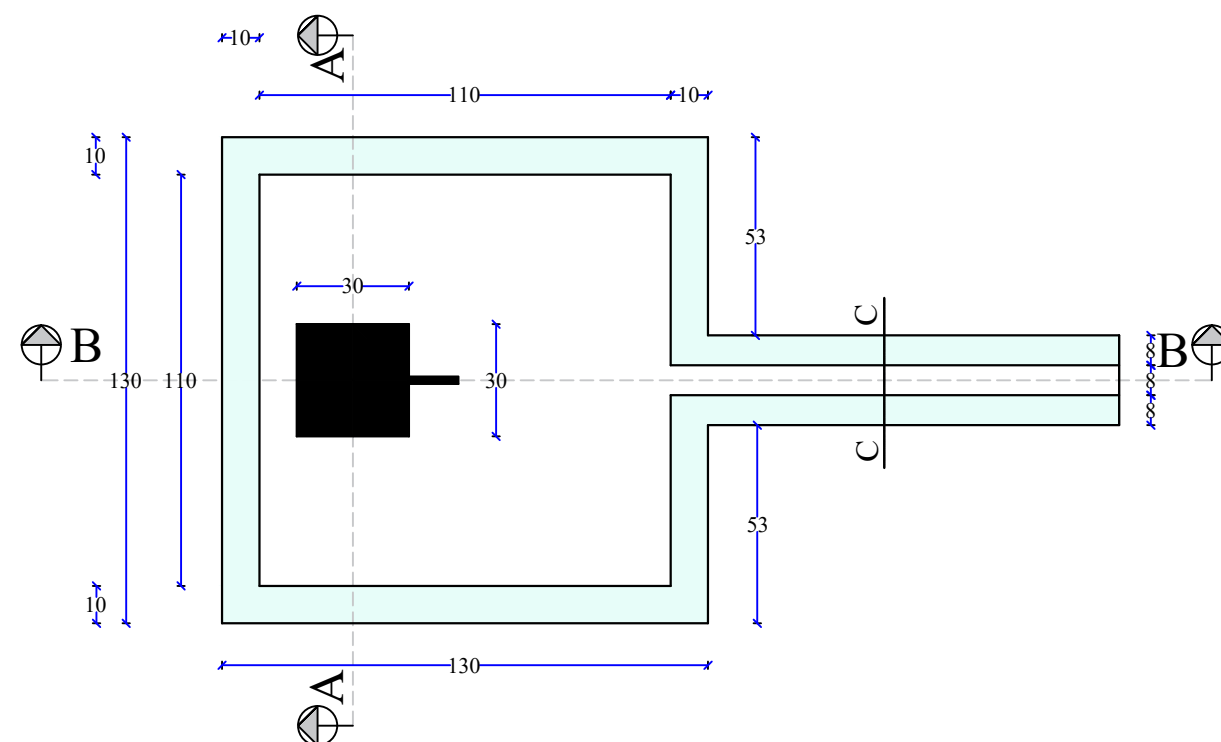
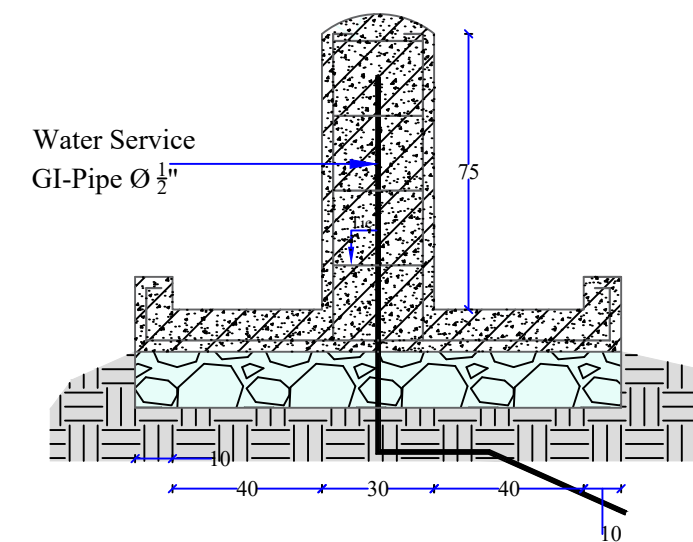
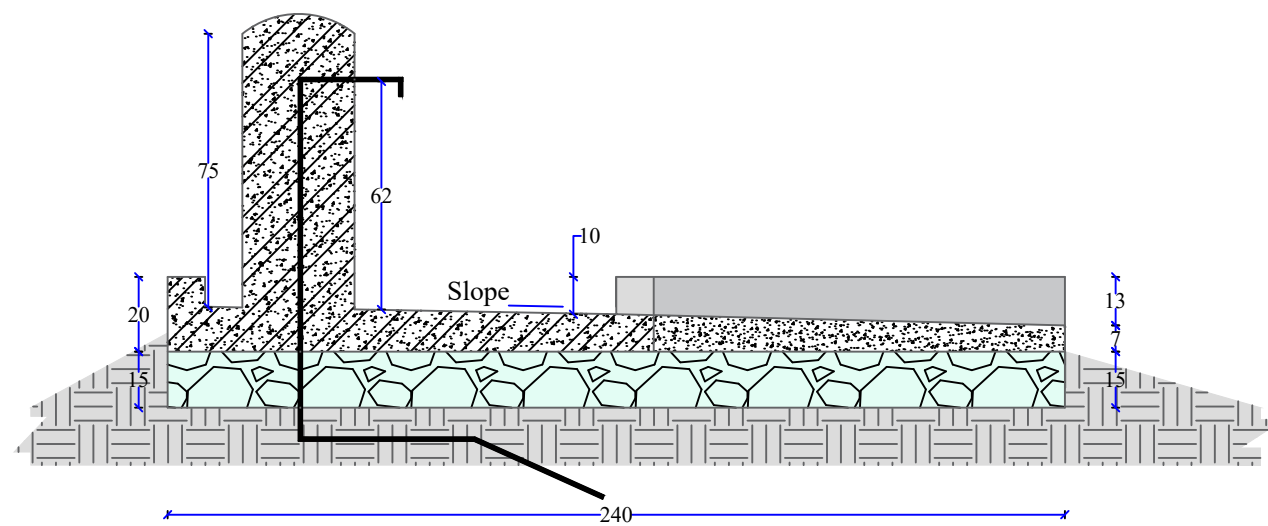
Province: Balkh  
District: Balkh  
Village: Asfahan

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

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

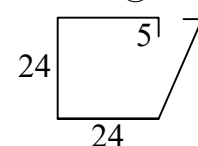






Longitudinal bars  
4Ø6

Ties  
4Ø6 @20 c/c



Tap Column reinfor...

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	Balkh
Village	Asfahan

Date	Sep/2022
Scale	A3-As shown
Unit	Centimeters

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

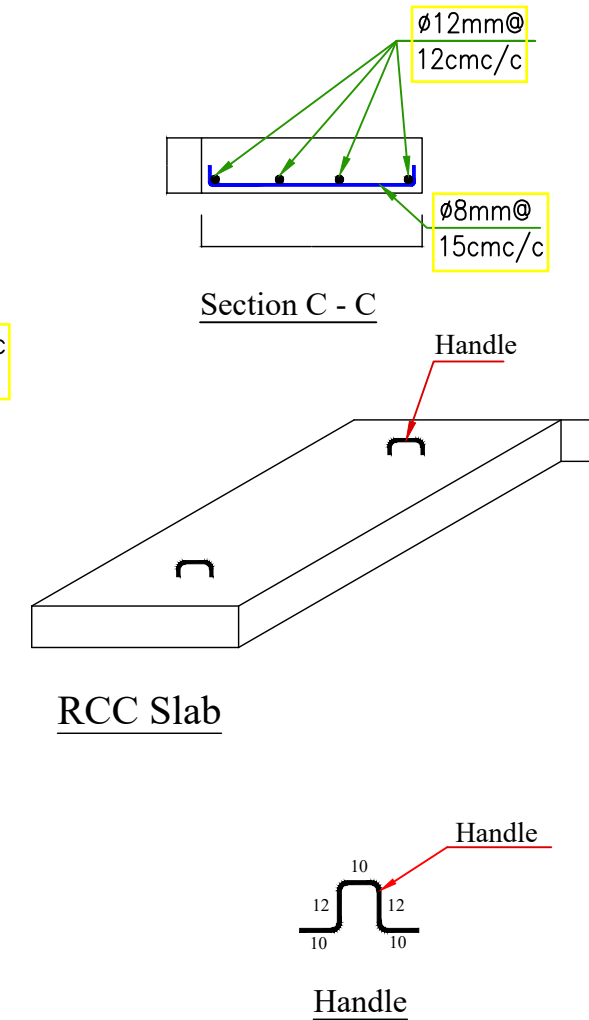
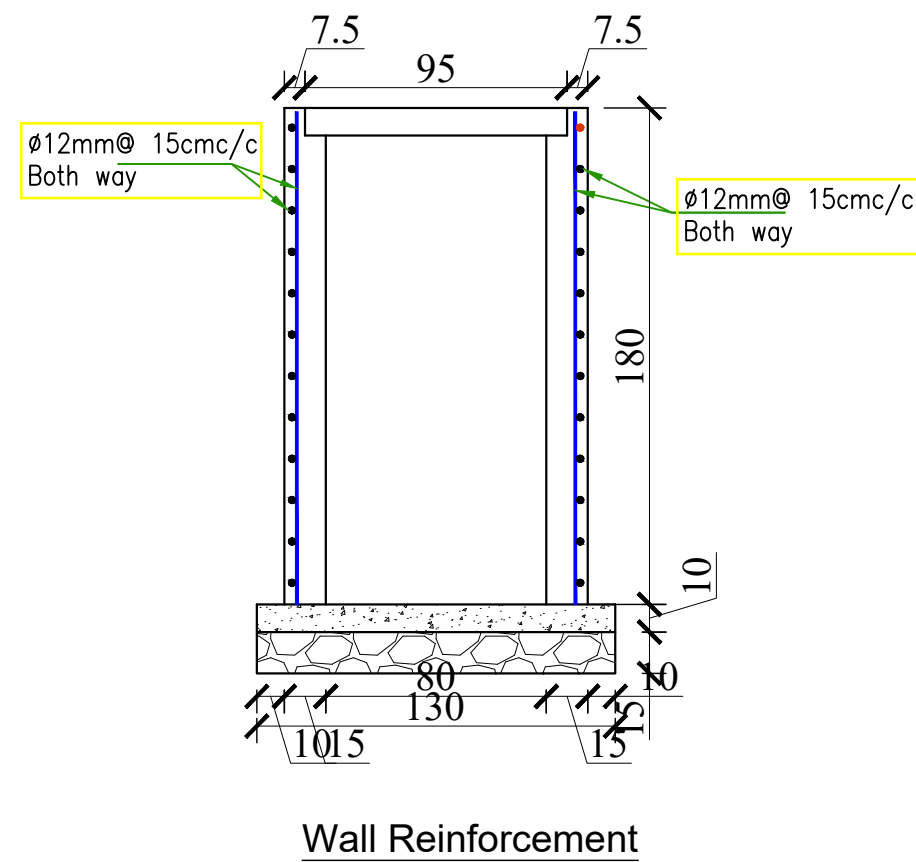
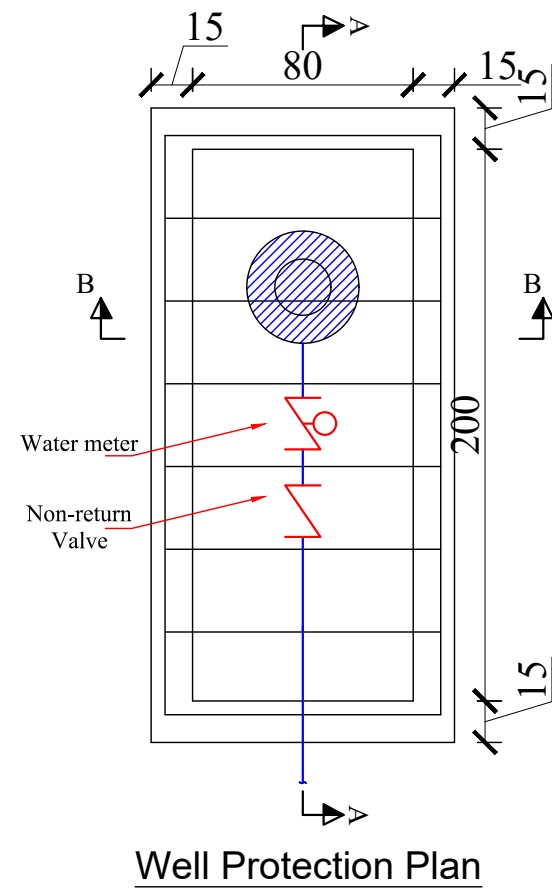
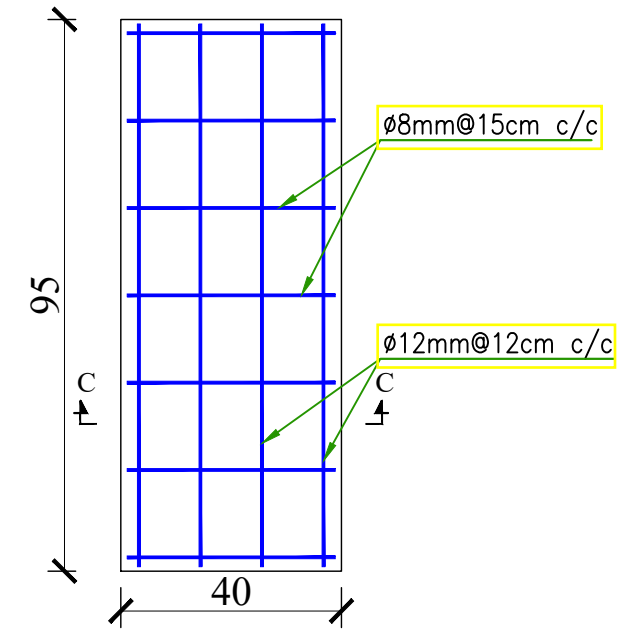
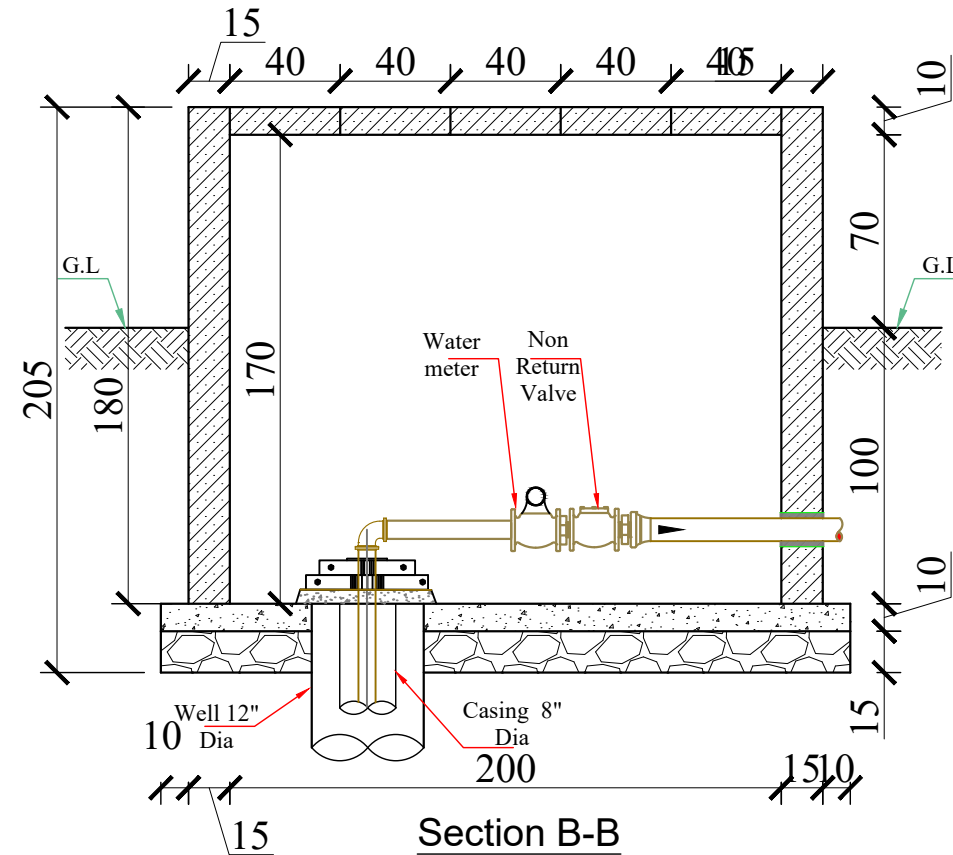
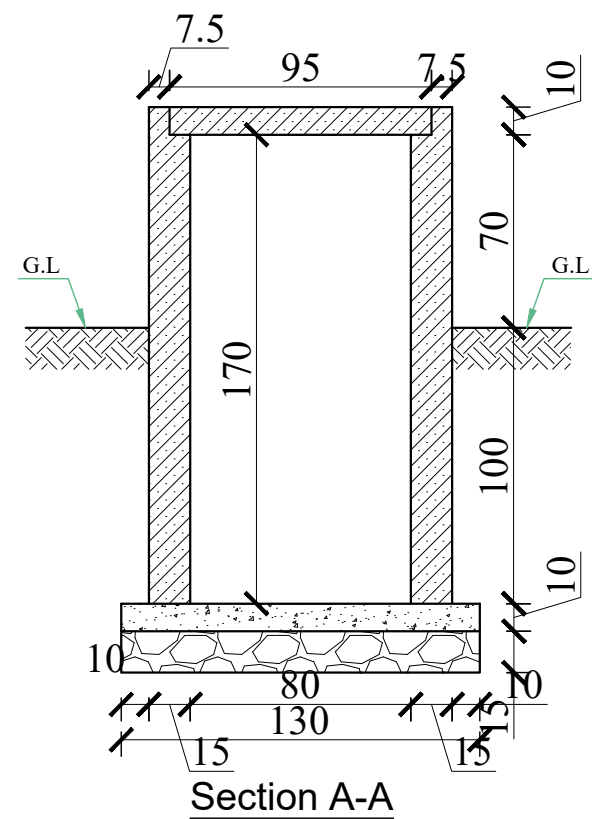












Funded by: USAID/BHA

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: Balkh

Village: Asfahan

Date: Sep/2022

Scale: A3-Shown

Unit: Centimeters

Drawing Title: Well Development

Sheet Title: Sections and details

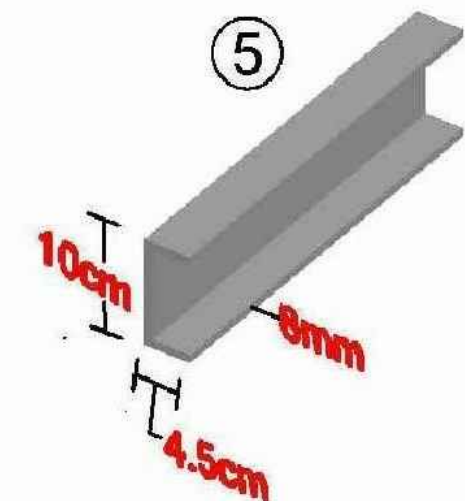
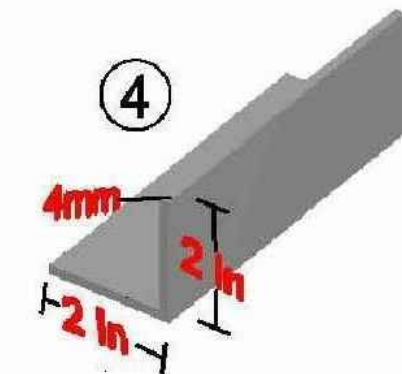
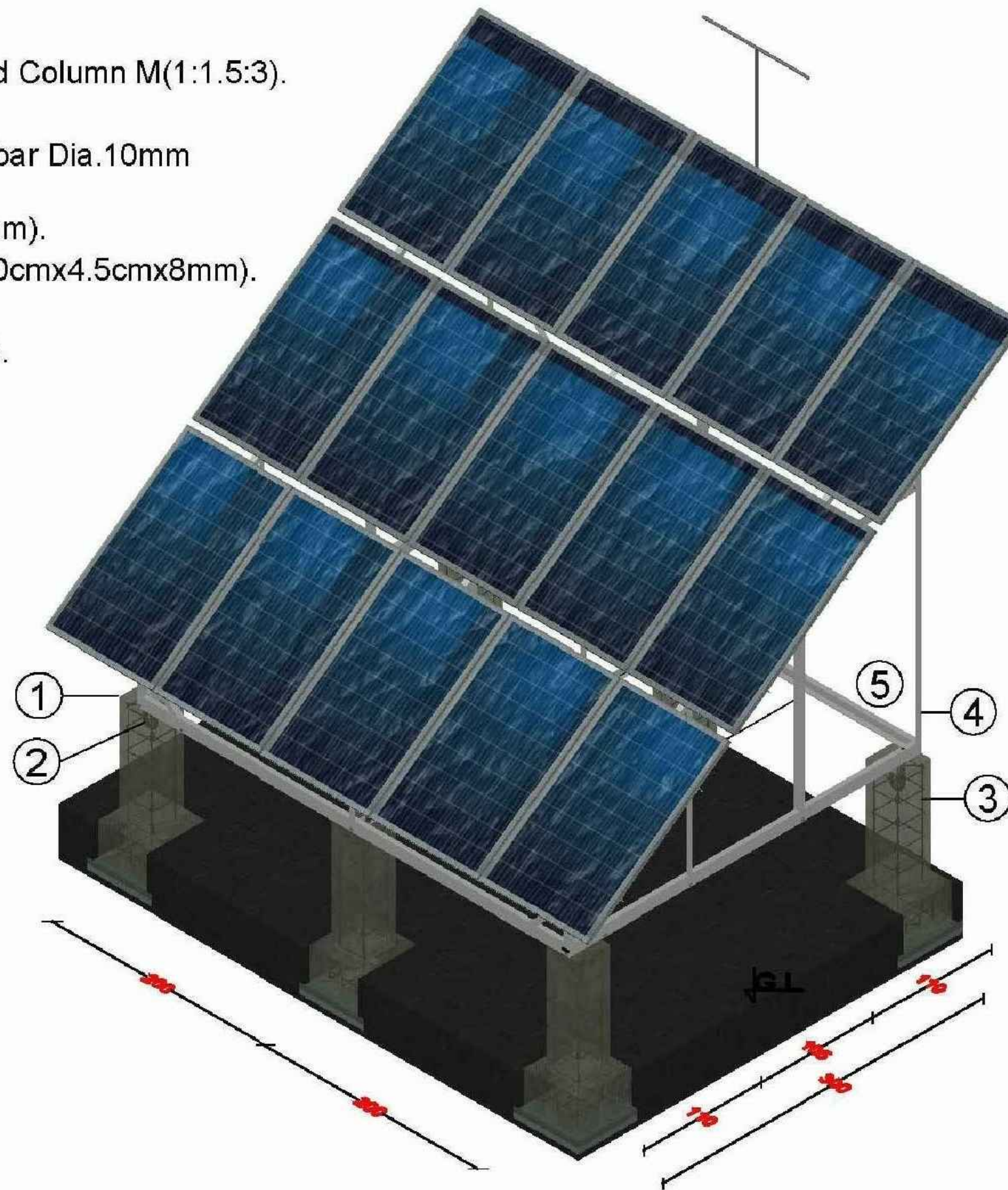
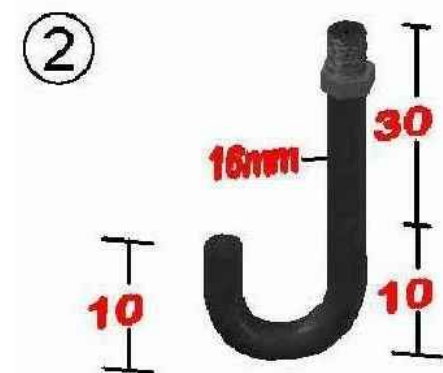
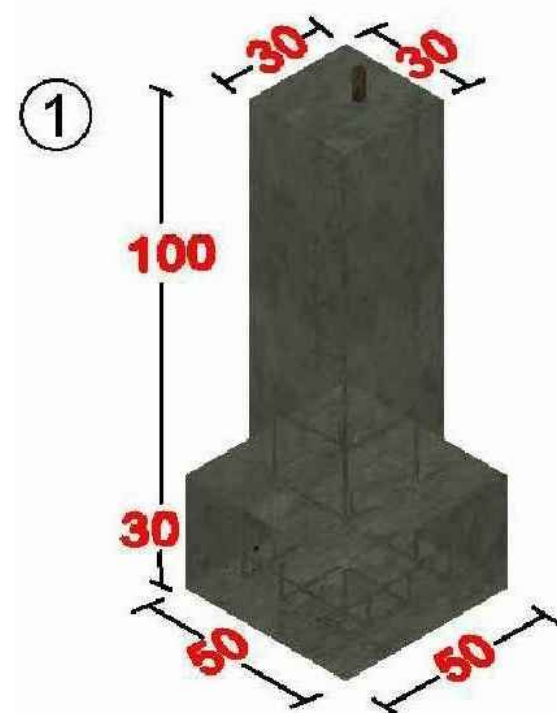
Sheet #: -----





## 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.



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

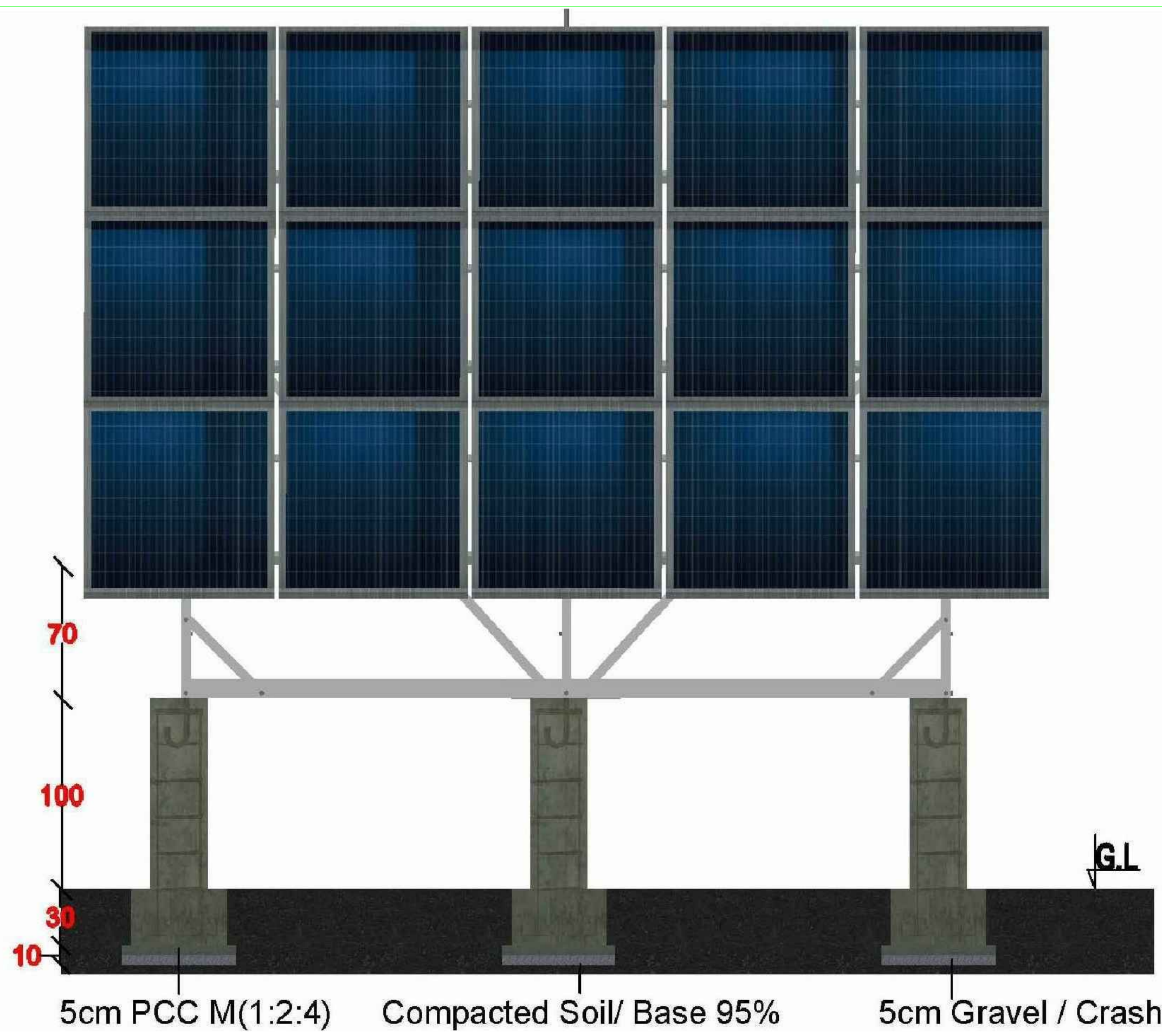
Province: Balkh  
District: Balkh  
Village: Asfahan

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

Drawing Title: Solar Frame  
Sheet Title: Frame 3 D  
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

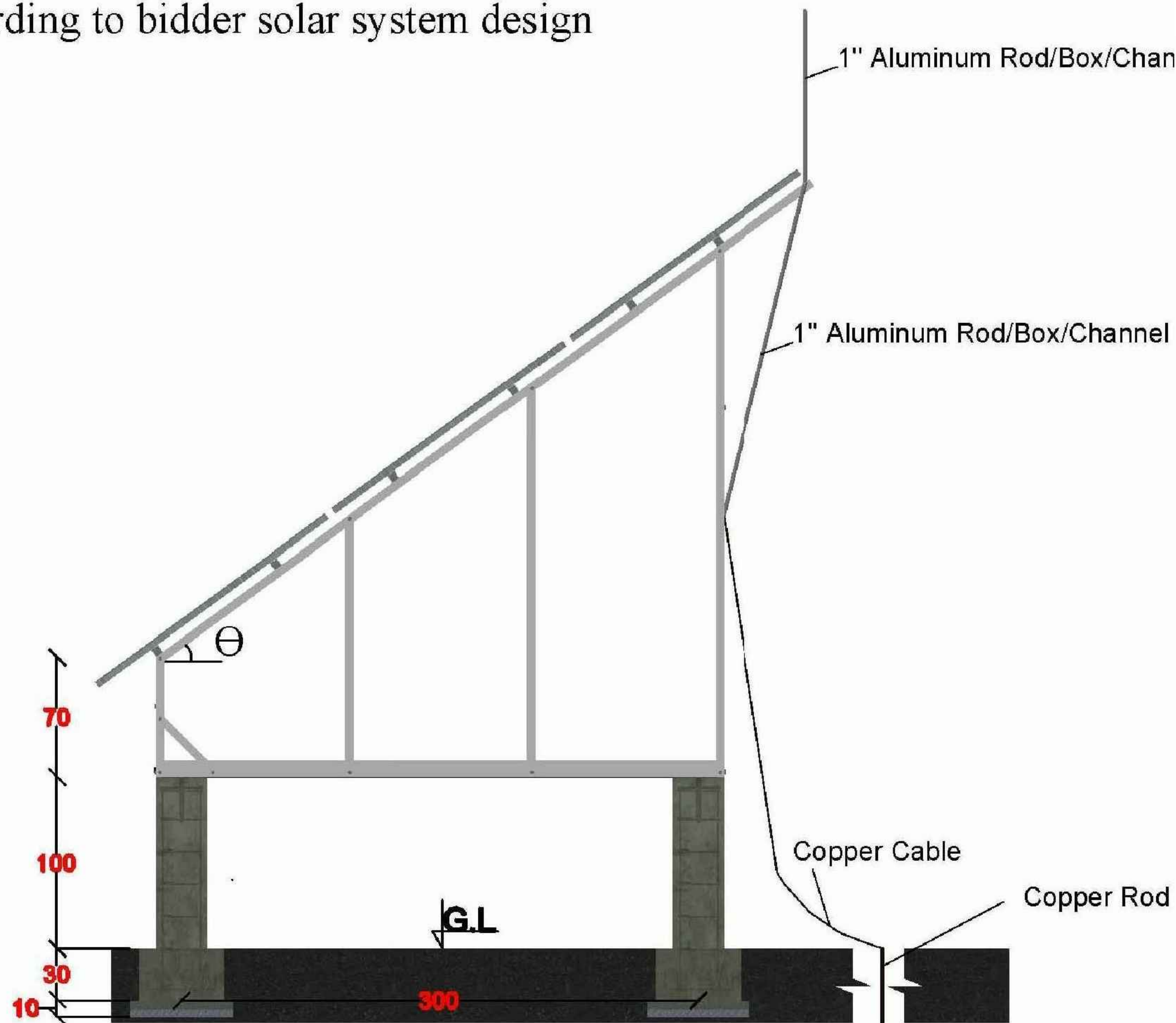
Province	Balkh
District	Balkh
Village	Asfahan

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

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



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



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

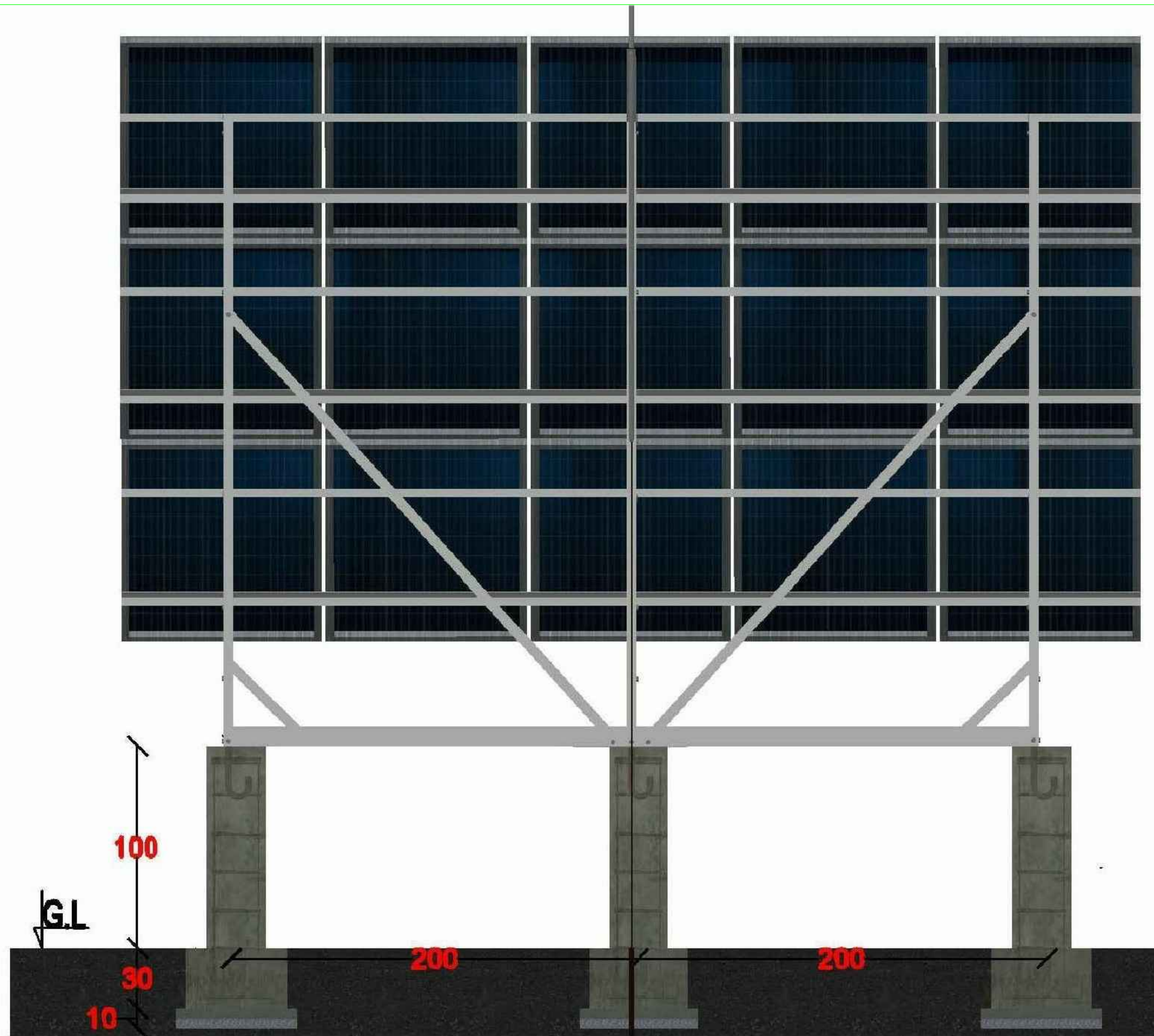
Province	Balkh
District	Balkh
Village	Asfahan

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Solar Frame
Sheet Title	Side View
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	Balkh
Village	Asfahan

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

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

