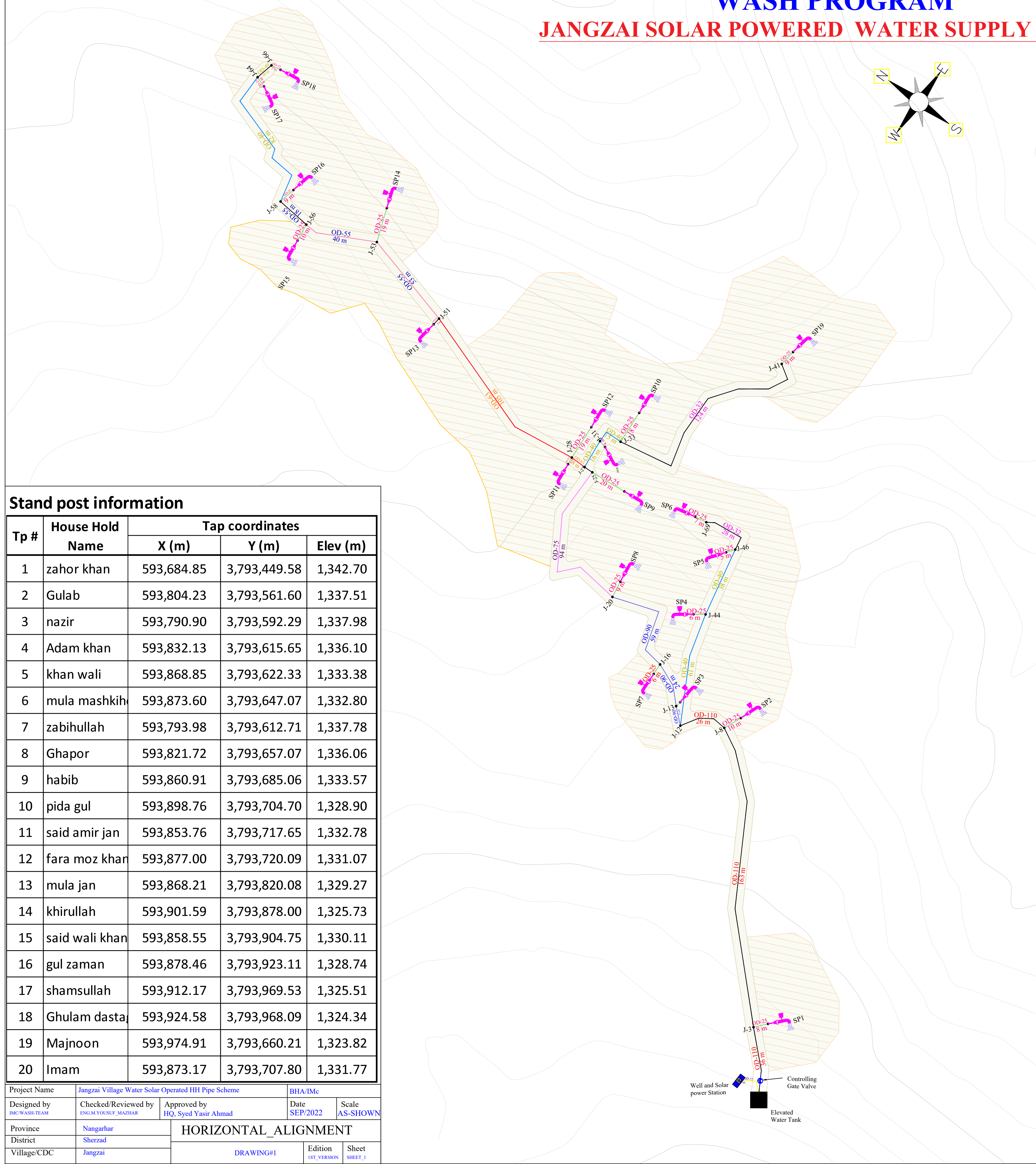


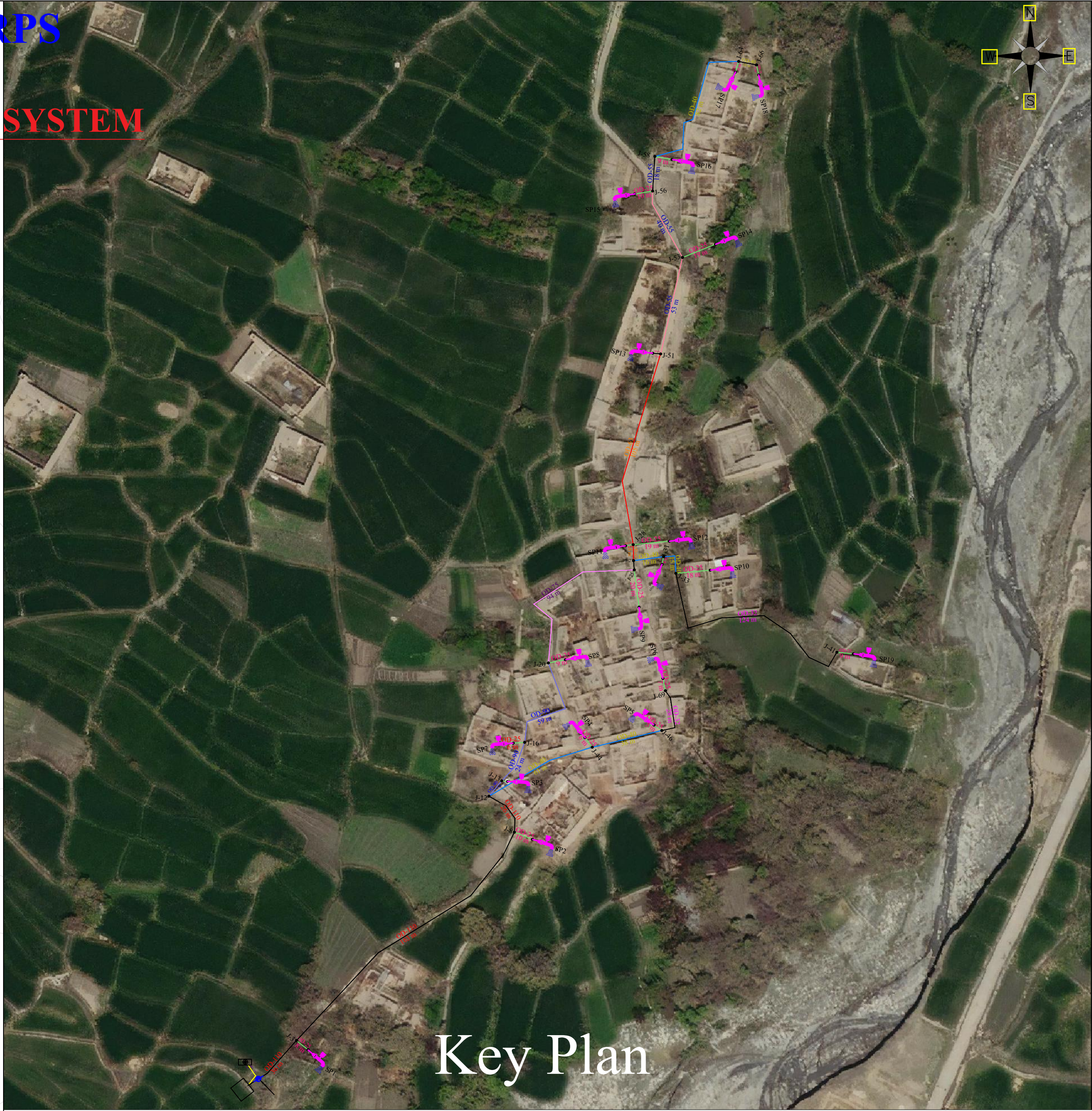
INTERNATIONAL MEDICAL CORPS
WASH PROGRAM
JANGZAI SOLAR POWERED WATER SUPPLY SYSTEM



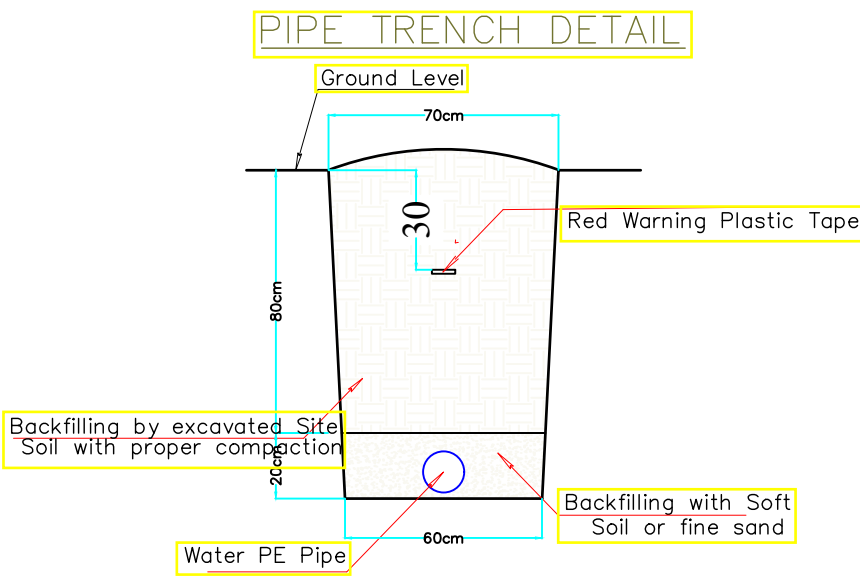
Stand post information

Tp #	House Hold Name	Tap coordinates		
		X (m)	Y (m)	Elev (m)
1	zahor khan	593,684.85	3,793,449.58	1,342.70
2	Gulab	593,804.23	3,793,561.60	1,337.51
3	nazir	593,790.90	3,793,592.29	1,337.98
4	Adam khan	593,832.13	3,793,615.65	1,336.10
5	khan wali	593,868.85	3,793,622.33	1,333.38
6	mula mashkih	593,873.60	3,793,647.07	1,332.80
7	zabihullah	593,793.98	3,793,612.71	1,337.78
8	Ghapor	593,821.72	3,793,657.07	1,336.06
9	habib	593,860.91	3,793,685.06	1,333.57
10	pida gul	593,898.76	3,793,704.70	1,328.90
11	said amir jan	593,853.76	3,793,717.65	1,332.78
12	fara moz khar	593,877.00	3,793,720.09	1,331.07
13	mula jan	593,868.21	3,793,820.08	1,329.27
14	khirullah	593,901.59	3,793,878.00	1,325.73
15	said wali khan	593,858.55	3,793,904.75	1,330.11
16	gul zaman	593,878.46	3,793,923.11	1,328.74
17	shamsullah	593,912.17	3,793,969.53	1,325.51
18	Ghulam dasta	593,924.58	3,793,968.09	1,324.34
19	Majnoon	593,974.91	3,793,660.21	1,323.82
20	Imam	593,873.17	3,793,707.80	1,331.77

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



Key Plan



Infrastructures Location				
S/N	Feature Name	Easting (M)	Northing (M)	Elevation (m)
1	Water Well	593,653.87	3,793,440.28	1340
2	Water Tank	593,652.87	3,793,430.68	1345

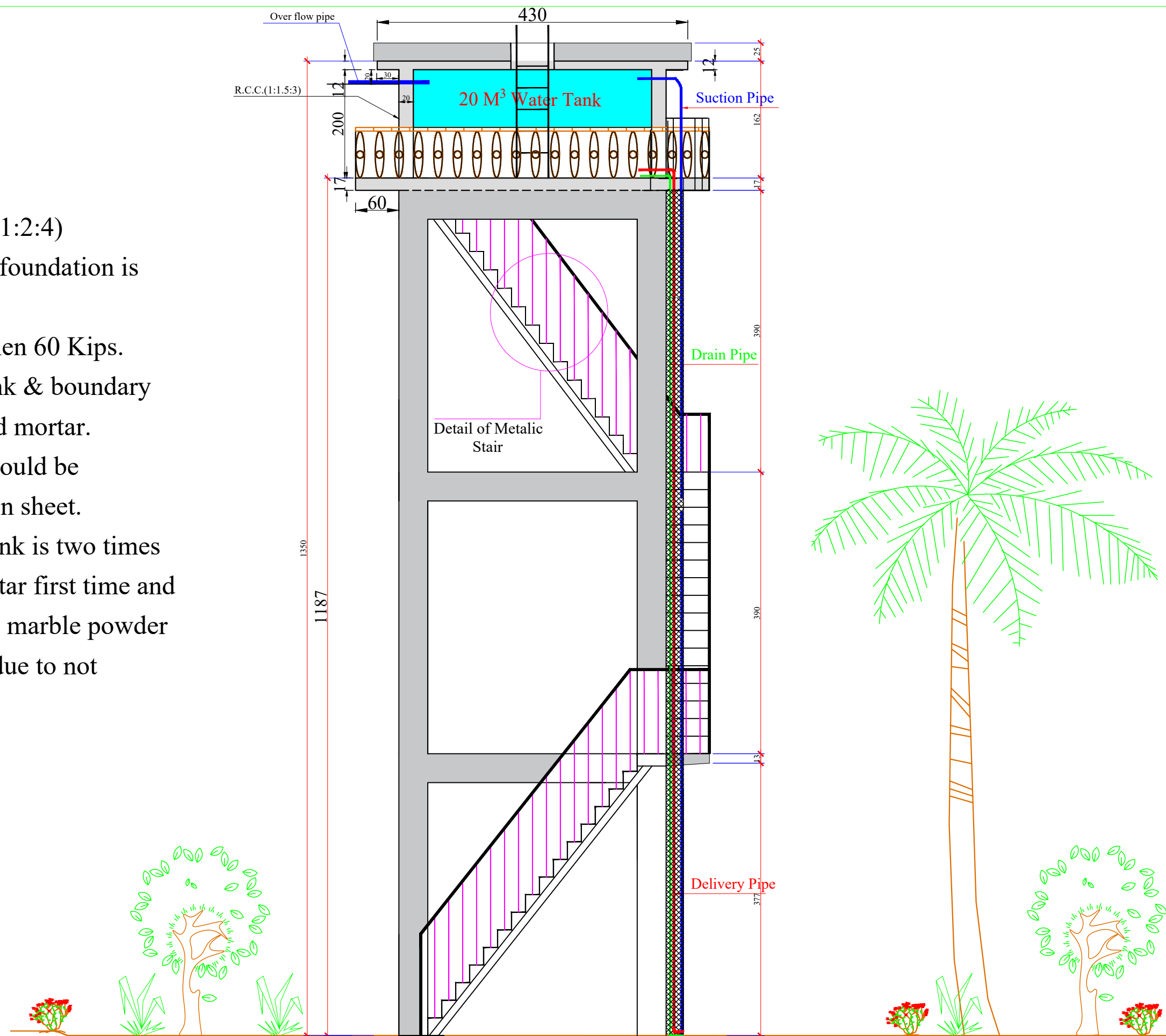
Note:
1. The unit used for length is meter and for diameter is ().
2. HDPE-100 Pipe, 16 Bar used for Ø20, Ø25 and Well-Tank pipes, and the HDPE-PE100, 10 Bars is using for larger sizes of the pipes, fromØ32 and above (As per PE pipe standard Catalogue).
3. All diameter of PE pipe in drawing considered Outer diameter.
4. 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.
5. The WASH Site engineer and contractor should adjust the Taps flow to design flow.
6. 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:

- All dimension are in cm.
- Mark of concrete M(1:1.5:3).
- Mark of Plain concrete PCC M(1:2:4)
- Safe bearing capacity of Soil in foundation is not less then 2 kg/cm².
- Steel bar Mark Grade not less then 60 Kips.
- Plastering work of Elevated Tank & boundary Wall with M(1:4) cement + sand mortar.
- Out let pipe and Suction pipe should be protected (Isolation) with GI iron sheet.
- Inside plastering of Elevated Tank is two times with M(1:4) cement + sand mortar first time and second time M(1:1:1) cement + marble powder + zero # stone (Cheps) mortar due to not leakages in the future



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

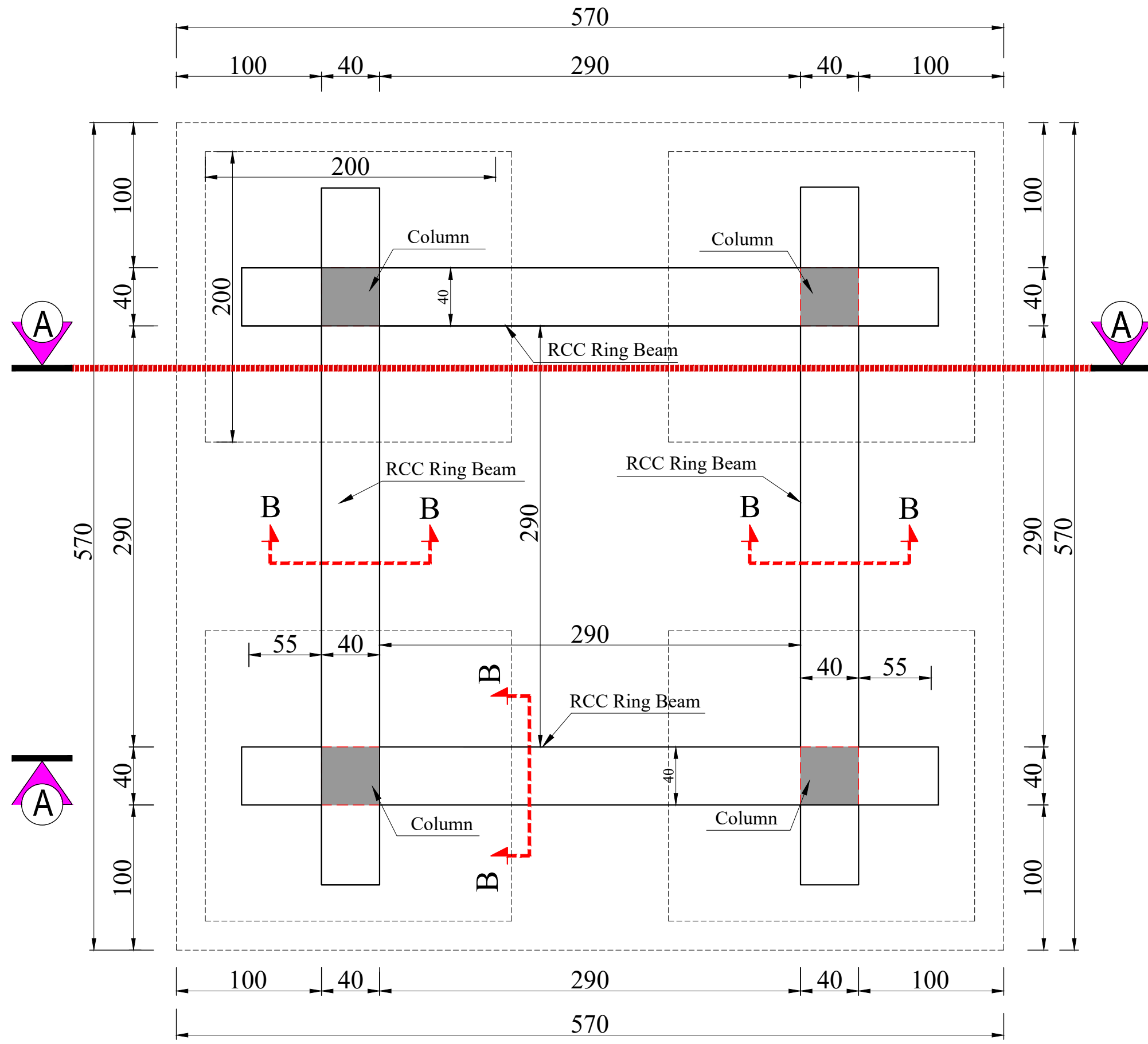
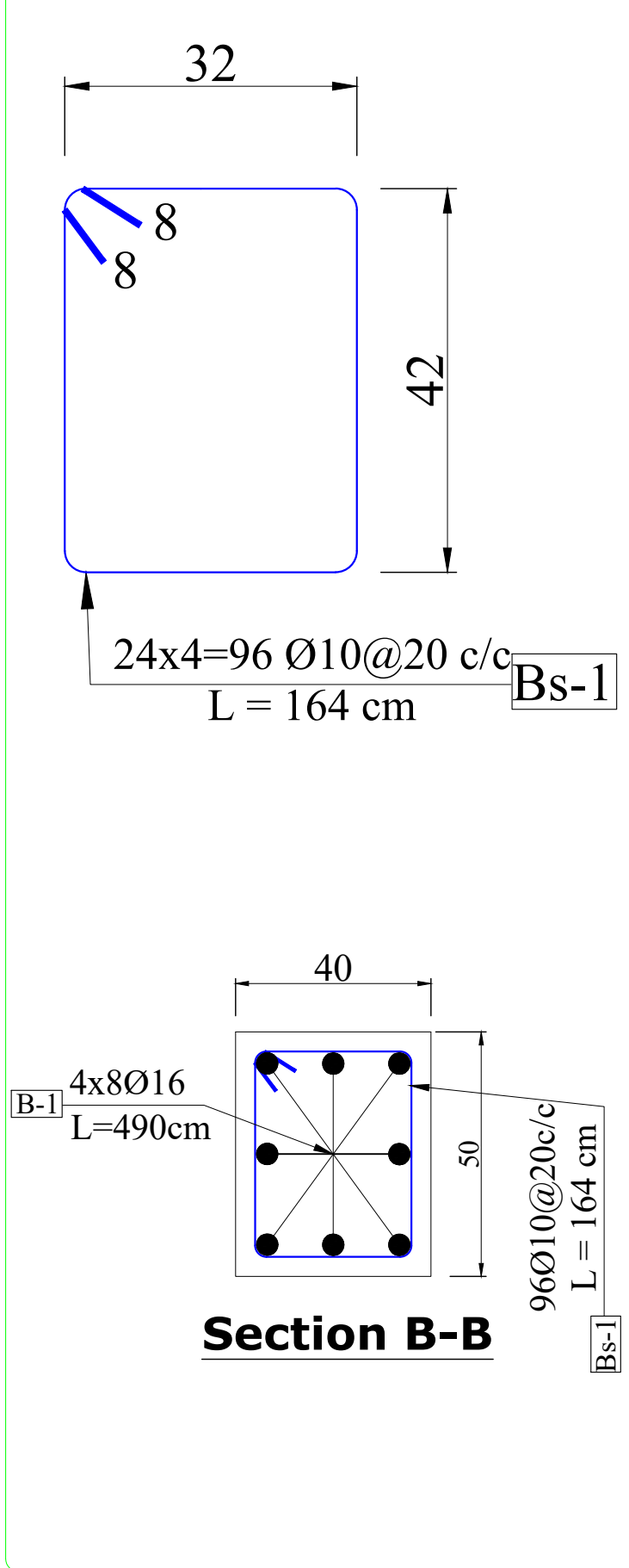
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District	Sherzad
Village	Jangzai

Date	Sep/2022
Scale	A3-shown
Unit	Centimeters

Drawing Title	Elevated 20 M3 Tank
Sheet Title	Front View
Sheet #	01



Foundation Plan of Elevated Water Tank



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

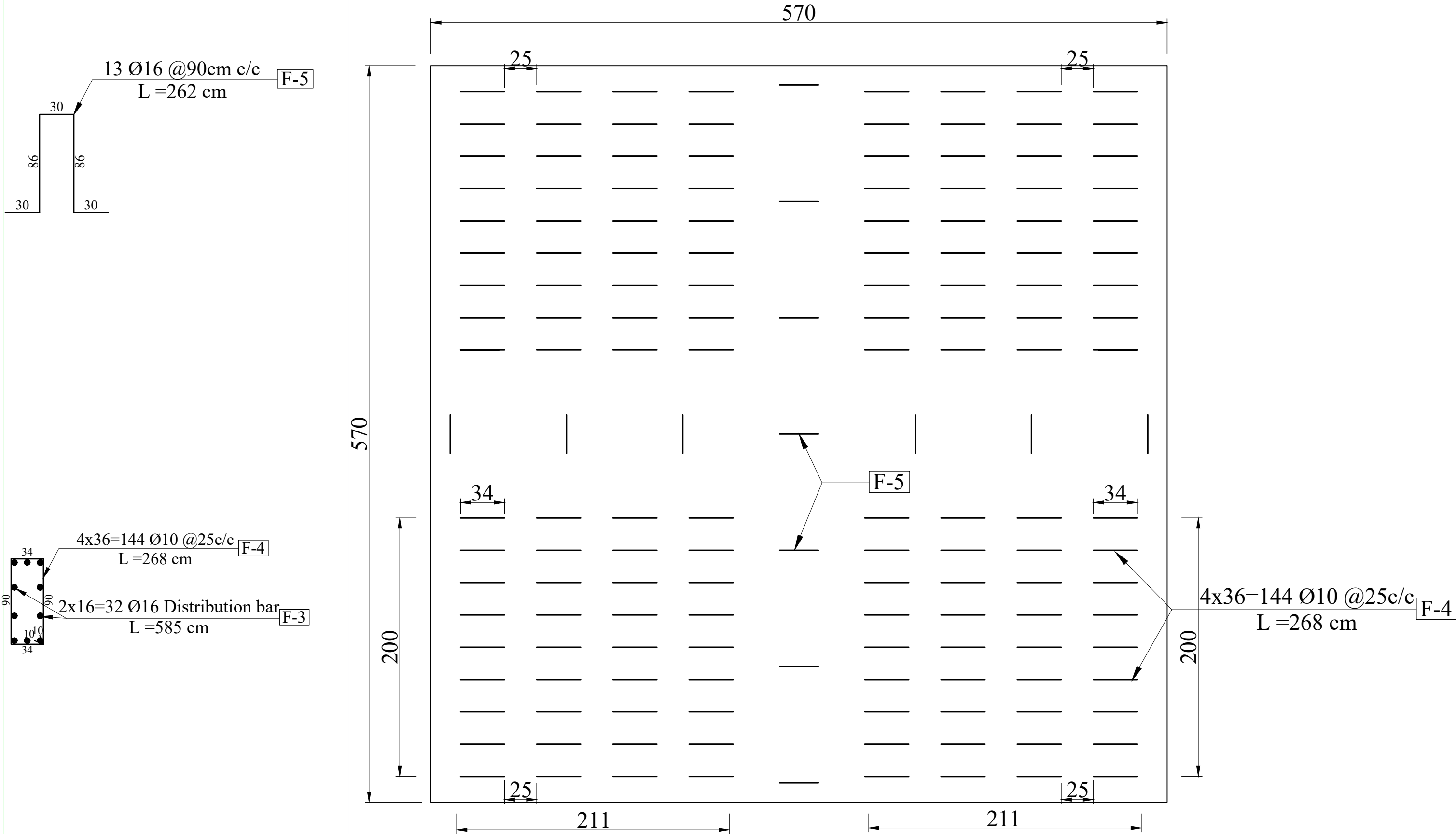
Province	Nangarhar
District	Sherzad
Village	Jangzai


Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Elevated 20 M3
Sheet Title	Foundation Plan
Sheet #	-----

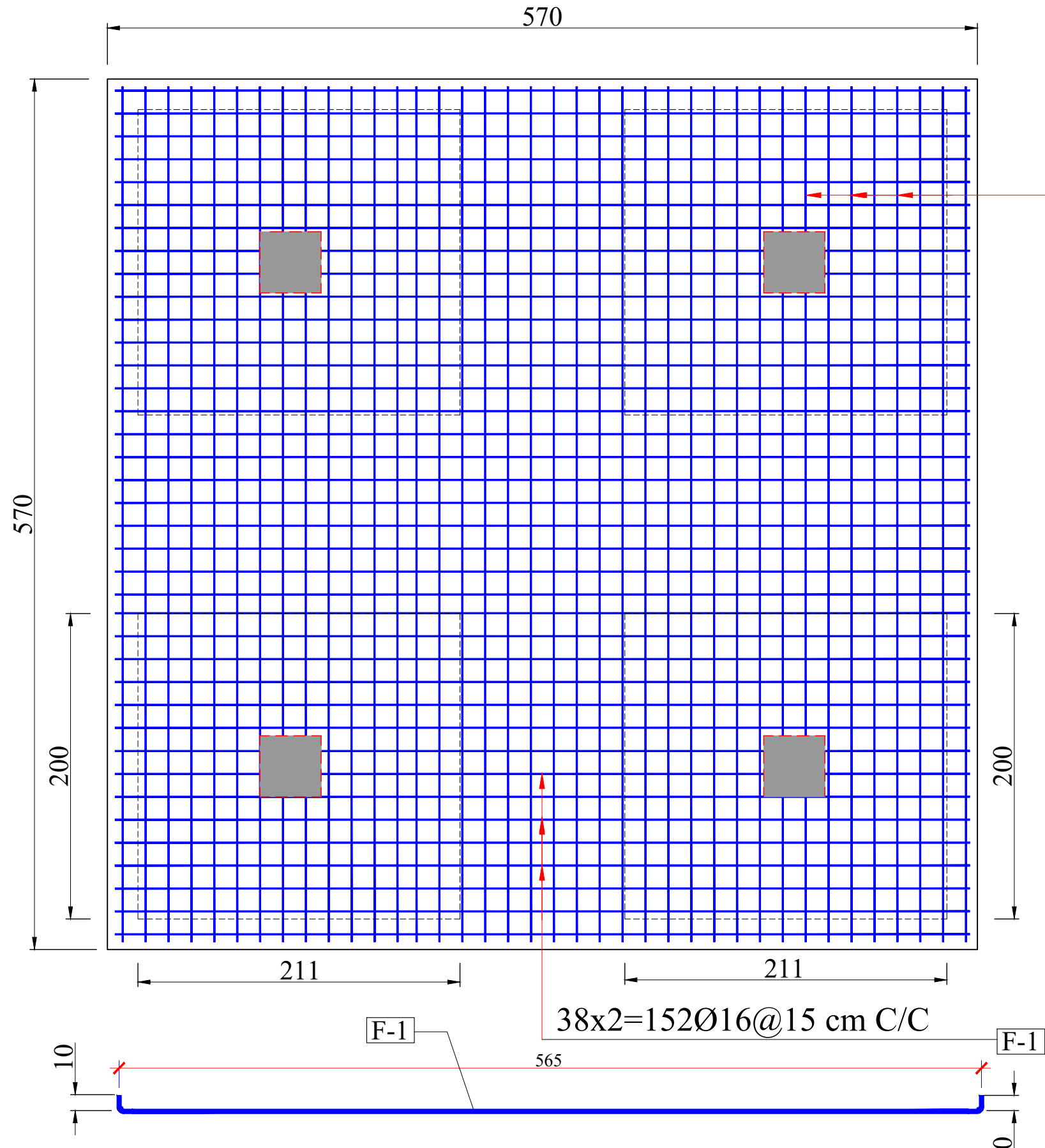
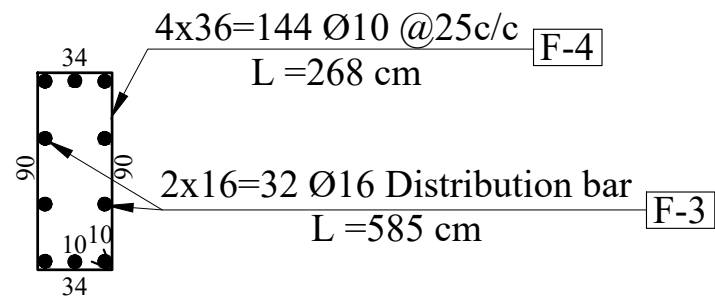
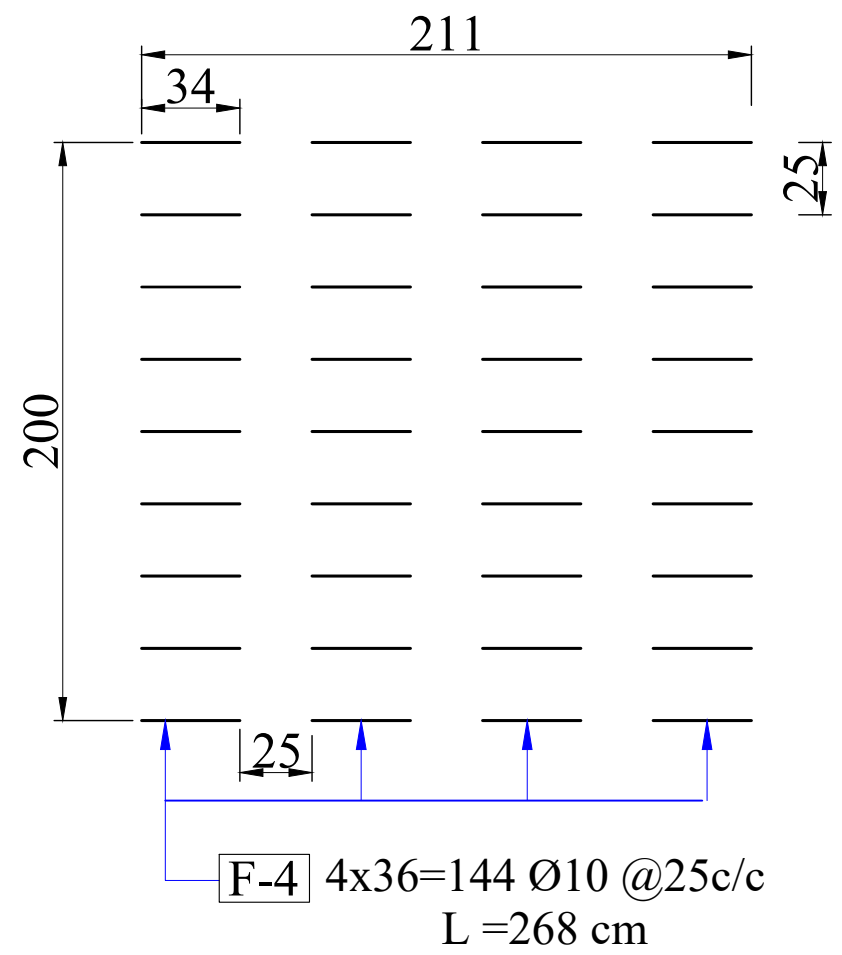


Reinforcement Plan of Footing



Funded by:	USAID/BHA	Drafted and Design BY:	IMC/WASH Team	Province	Nangarhar	Date	Sep/2022	Drawing Title	Elevated 20 M3	
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT		Review and Checked by:	Eng. Yousuf Mazhar	District	Sherzad	Scale	A3-Shown	Sheet Title	Foundation Reinfor.	
		Review and Approved by:	Eng. Mohammad Yasir	Village	Jangzai	Unit	Centimeters	Sheet #	-----	

Reinforcement Plan of Footing



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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

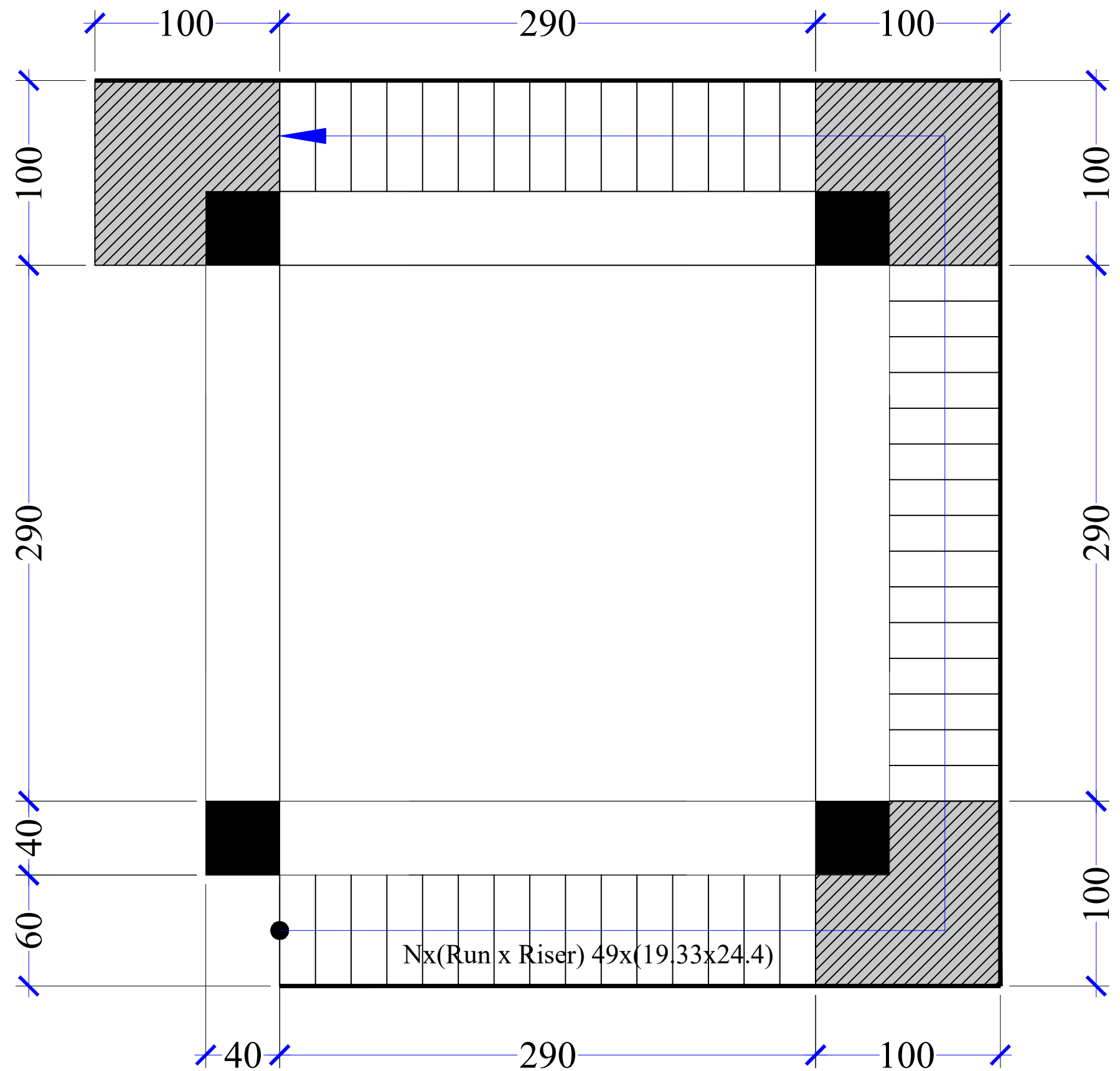
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District: Sherzad
Village: Jangzai

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


Drawing Title: Elevated 20 M3
Sheet Title: Foundation Reinf.
Sheet #: -----



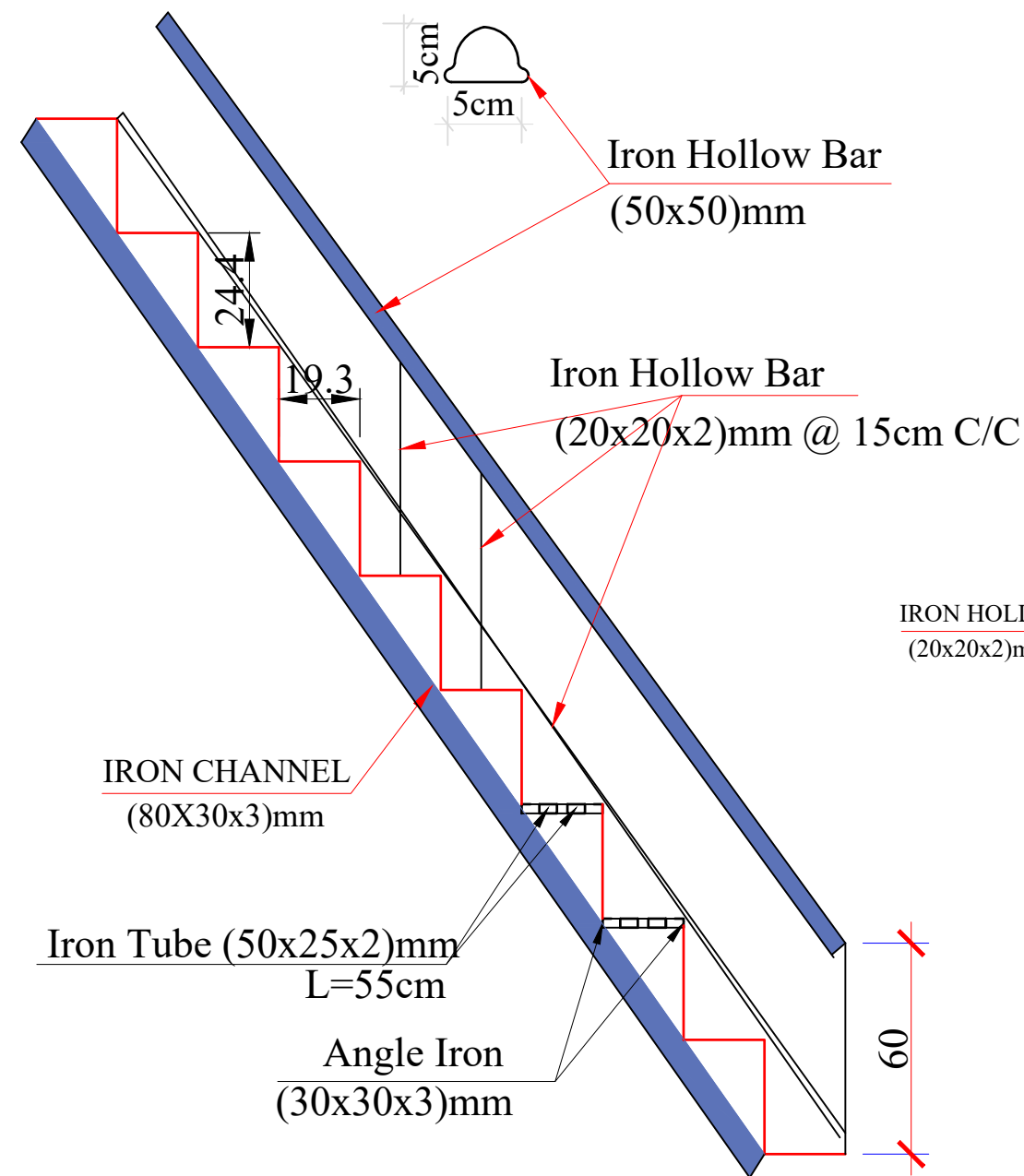
Funded by:	USAID/BHA	Drafted and Design BY:	IMC/WASH Team	Province	Nangarhar	Date	Sep/2022	Drawing Title	Elevated 20 M3	
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	Review and Checked by:	Eng. Yousuf Mazhar	District	Sherzad	Scale	A3-Shown	Sheet Title	Section A-A		
	Review and Approved by:	Eng. Mohammad Yasir	Village	Jangzai	Unit	Centimeters	Sheet #	-----		



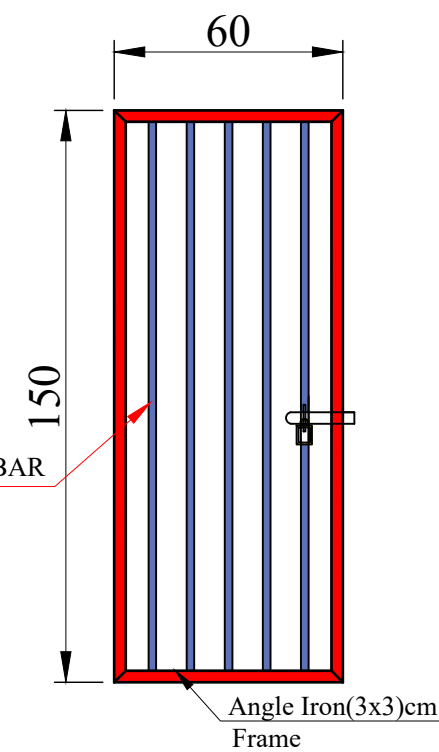
Stair Case Plan

Funded by:	USAID/BHA	Drafted and Design BY:	IMC/WASH Team	Province	Nangarhar	Date	Sep/2022	Drawing Title	Elevated 20 M3	
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT		Review and Checked by:	Eng. Yousuf Mazhar	District	Sherzad	Scale	A3-Shown	Sheet Title	Stair Plan	
		Review and Approved by:	Eng. Mohammad Yasir	Village	Jangzai	Unit	Centimeters	Sheet #	-----	

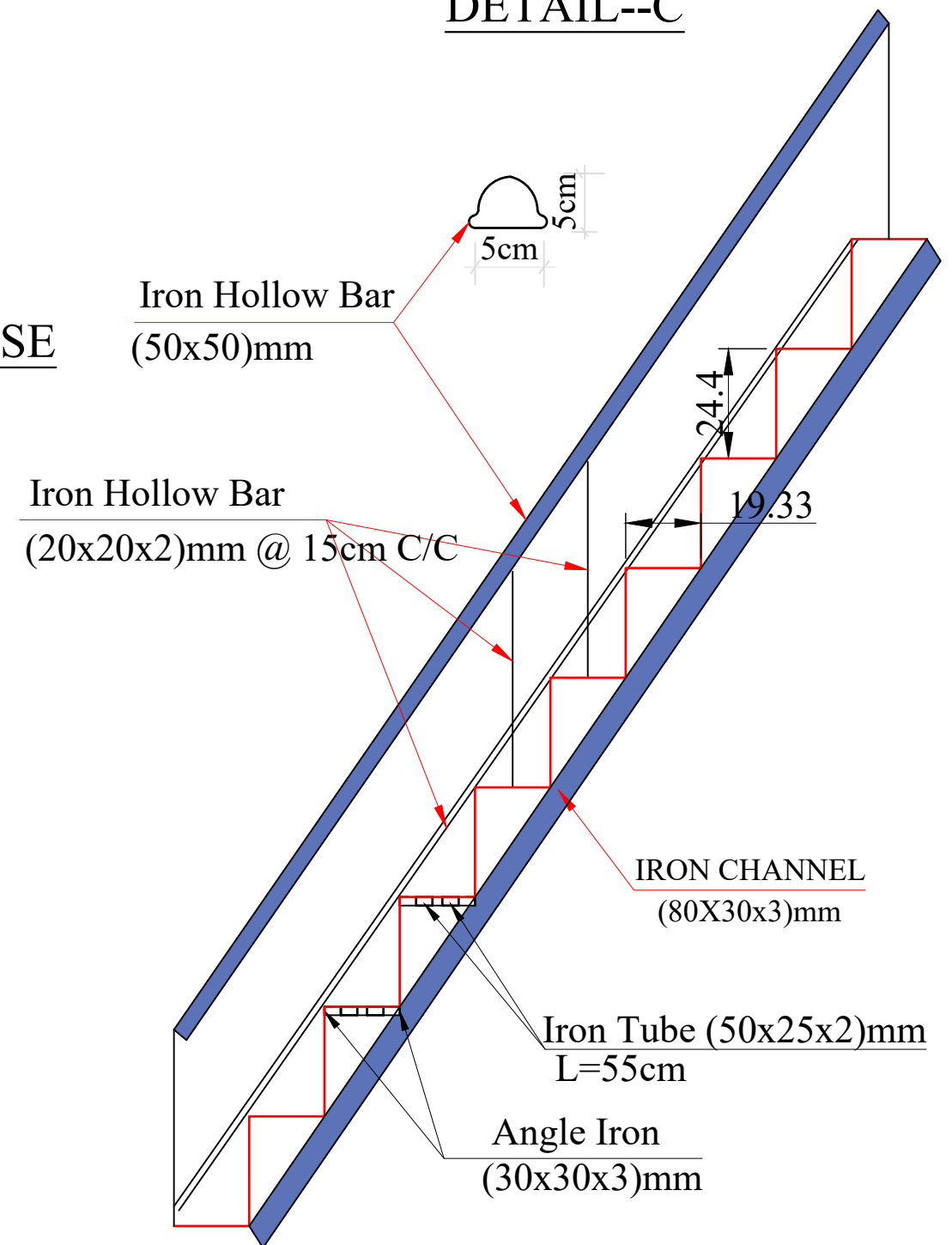
DETAIL--B



DOOR FOR STAIR CASE



DETAIL--C



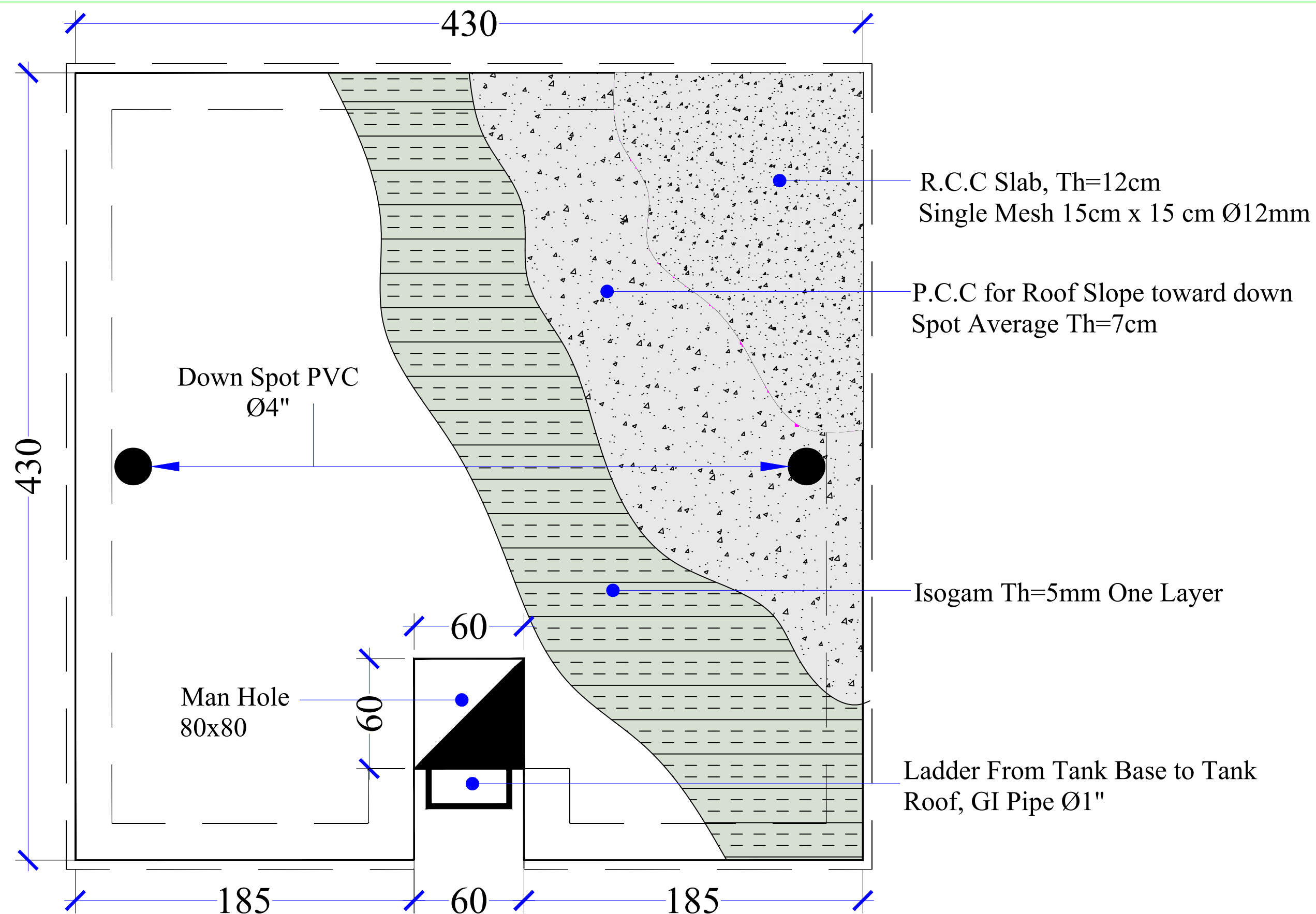
Funded by:	USAID/BHA
INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

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

Province	Nangarhar
District	Sherzad
Village	Jangzai

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

Drawing Title	Elevated 20 M3
Sheet Title	Stair Section
Sheet #	-----



Roof Plan

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INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT	

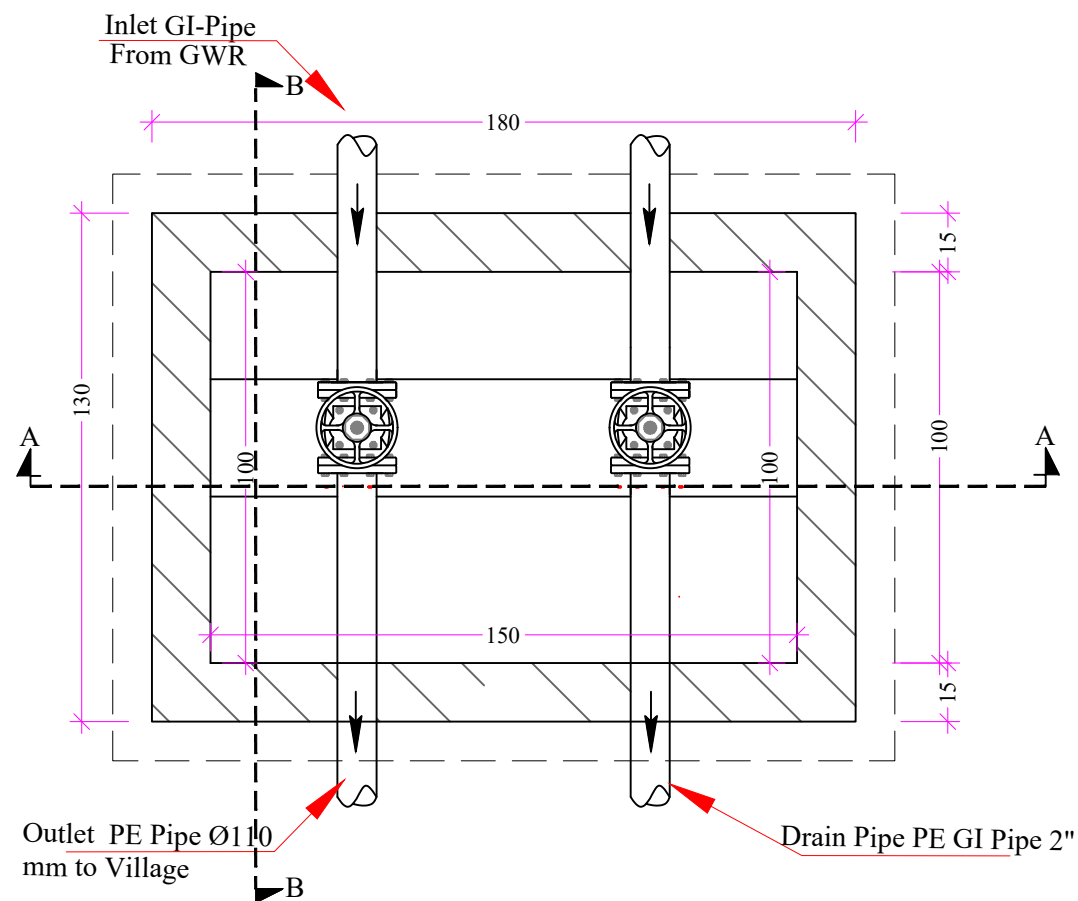
Drafted and Design BY:	IMC/WASH Team
Review and Checked by:	Eng. Yousuf Mazhar
Review and Approved by:	Eng. Mohammad Yasir

Province	Nangarhar
District	Sherzad
Village	Jangzai

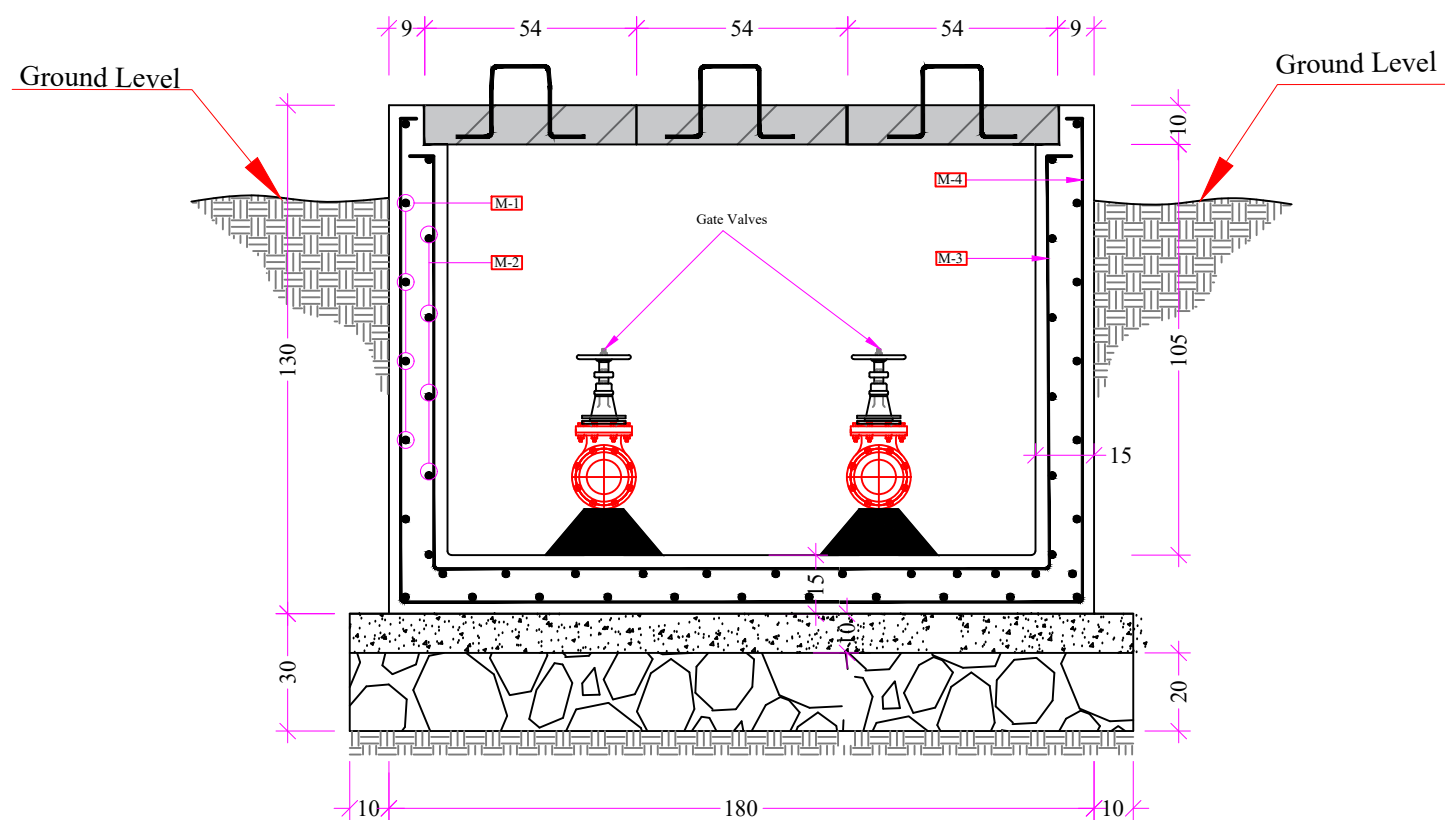
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Unit	Centimeters

Drawing Title	Elevated 20 M3
Sheet Title	Roof Plan
Sheet #	-----

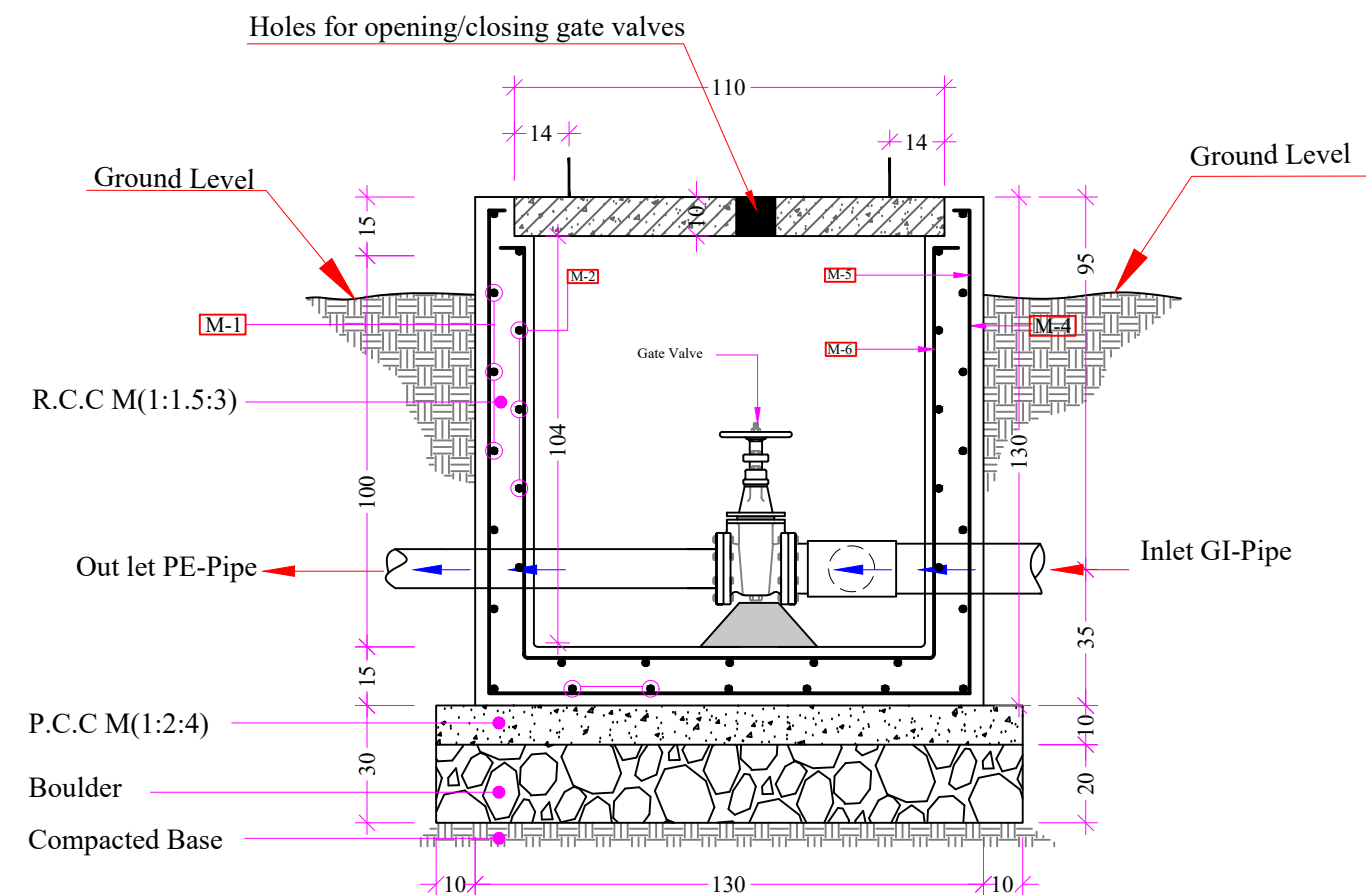




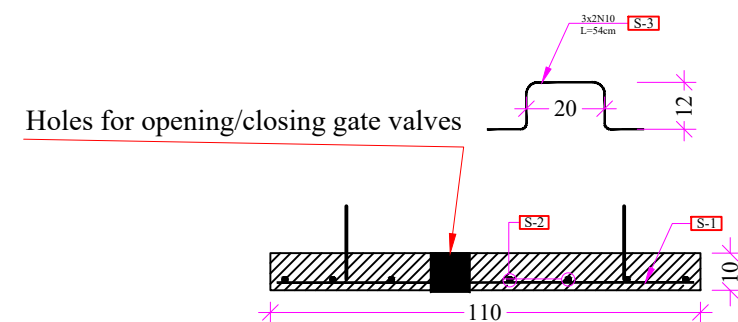
PLAN



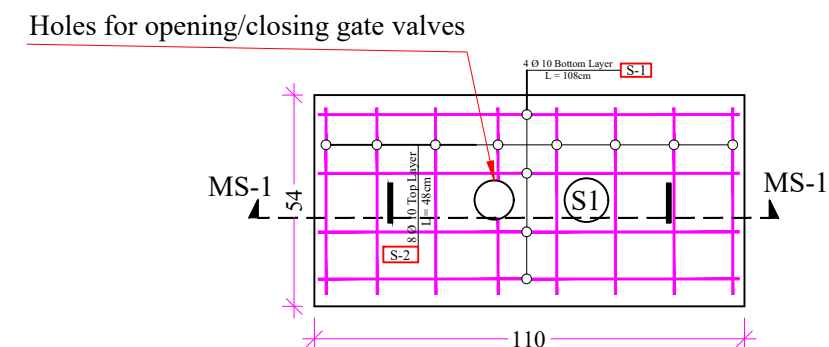
SECTION A-A



SECTION B-B



SECTION MS1-MS1



RCC SLAB PLAN

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PROGRAM DEPARTMENT
WASH UNIT

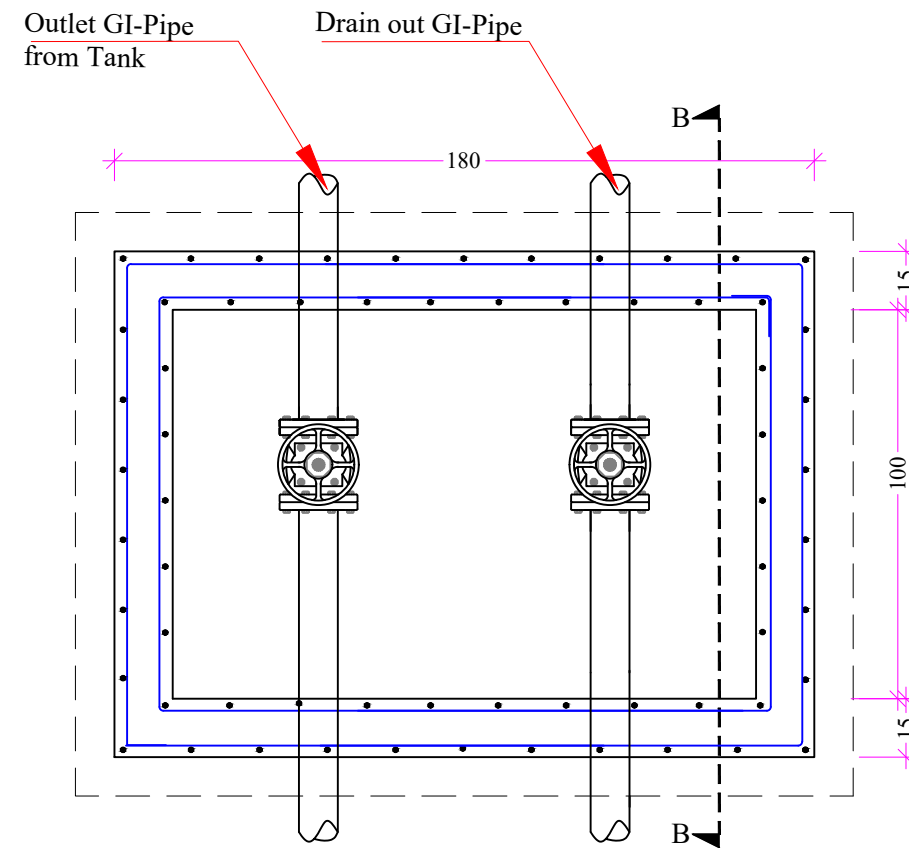
Drafted and Design BY: IMC/WASH Team
Review and Checked by: Eng. Yousuf Mazhar
Review and Approved by: Eng. Mohammad Yasir

Province: Nangarhar
District: Sherzad
Village: Jangzai

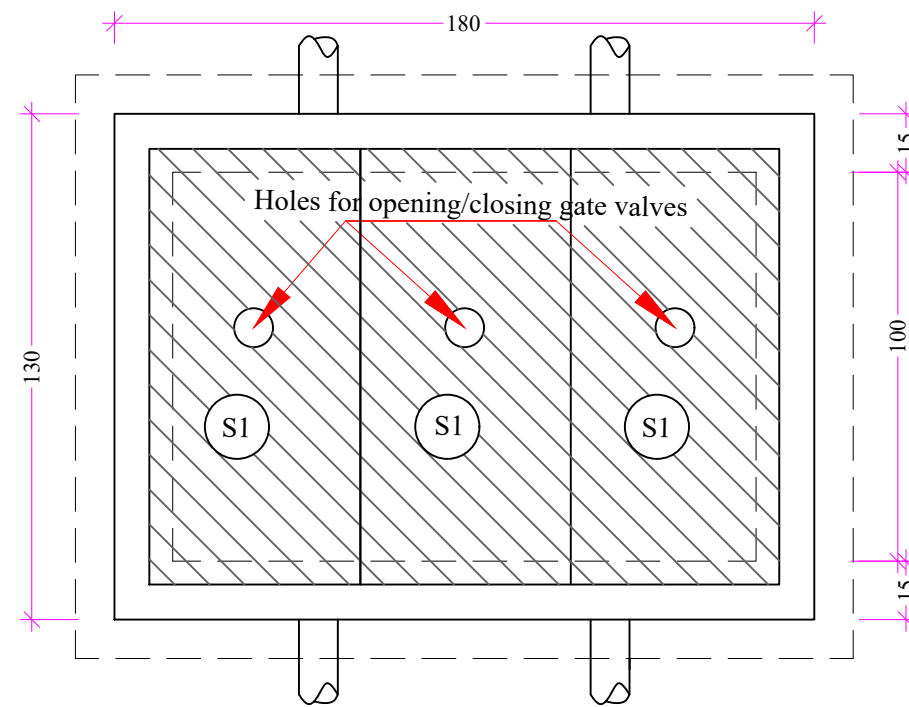
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Unit: Centimeters

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

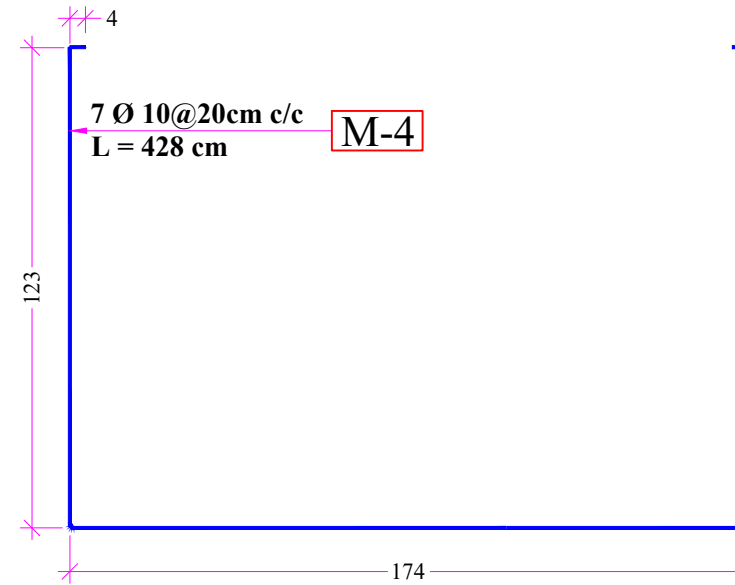




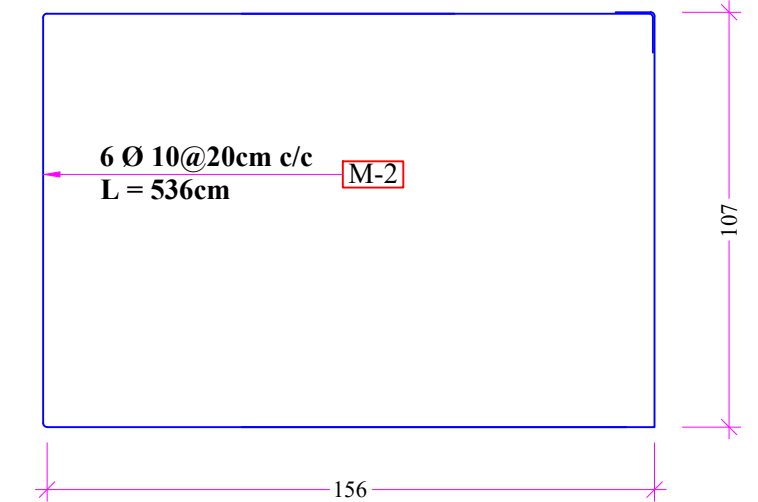
SECTIONAL PLAN OF RCC WALLS



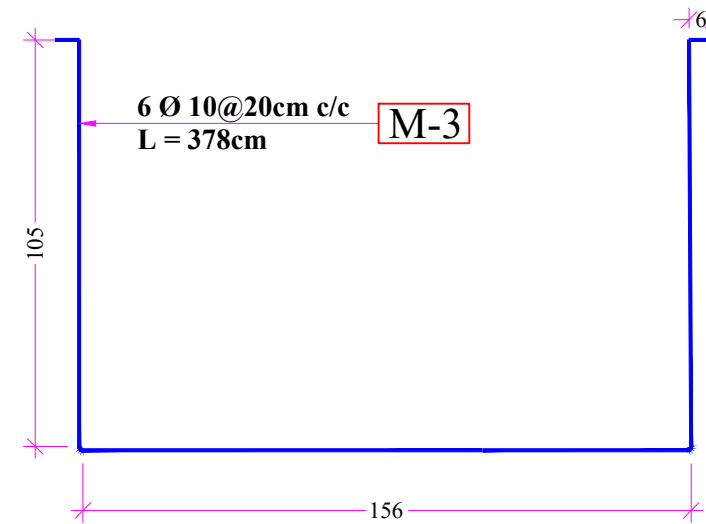
TOP VIEW



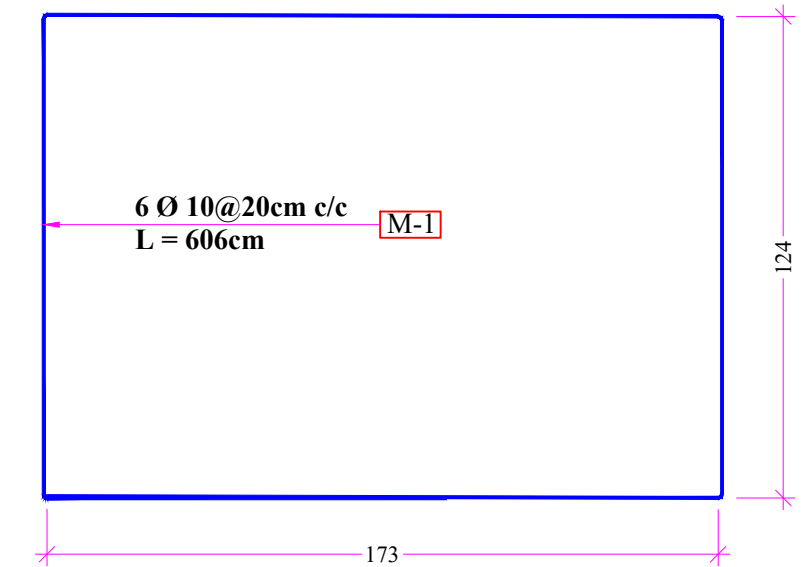
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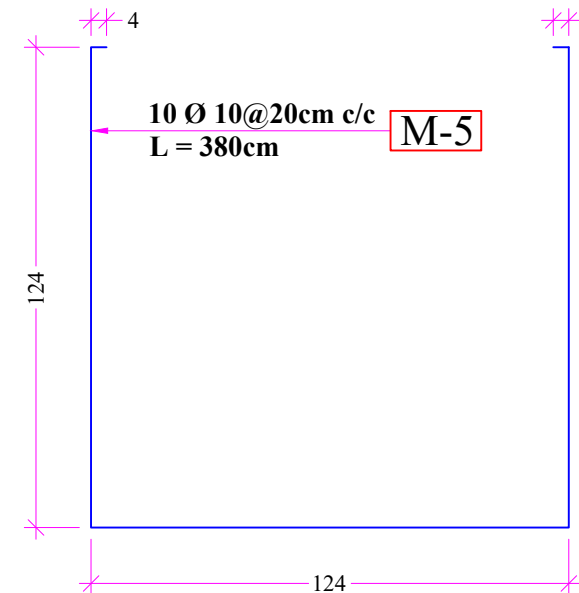
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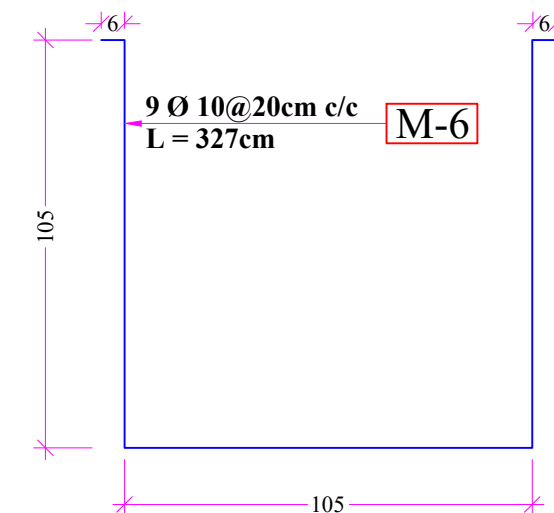
M-3



M-1



M-5



M-6

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WASH UNIT

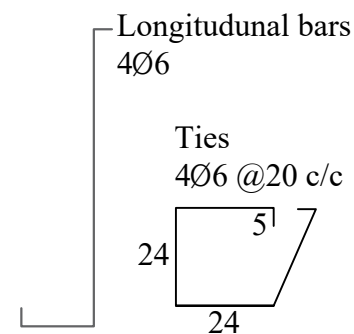
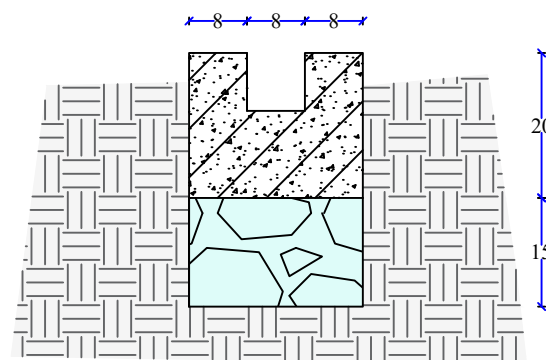
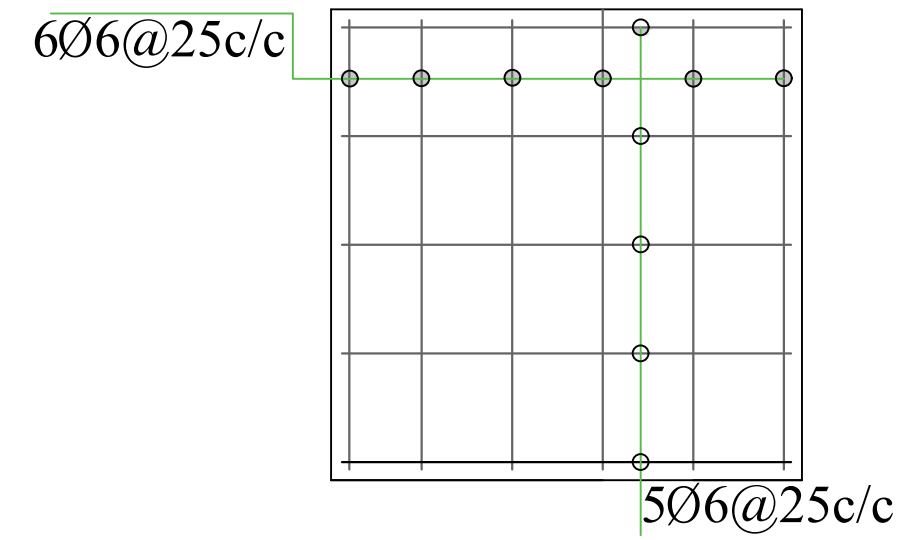
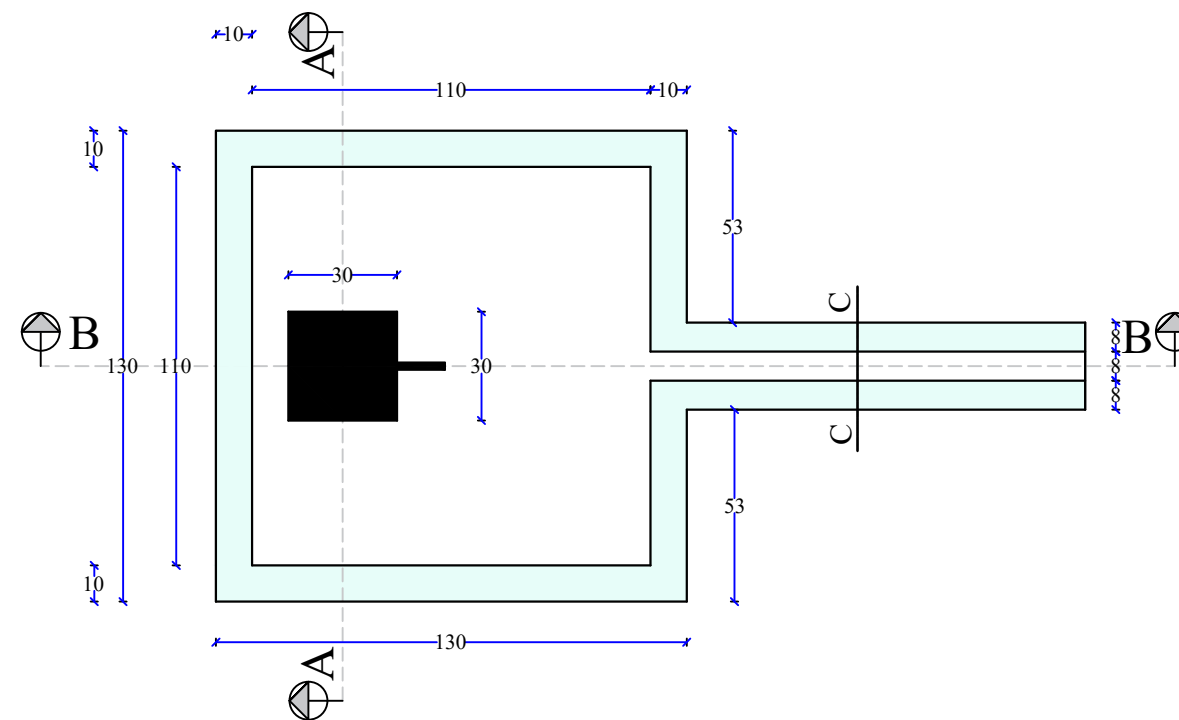
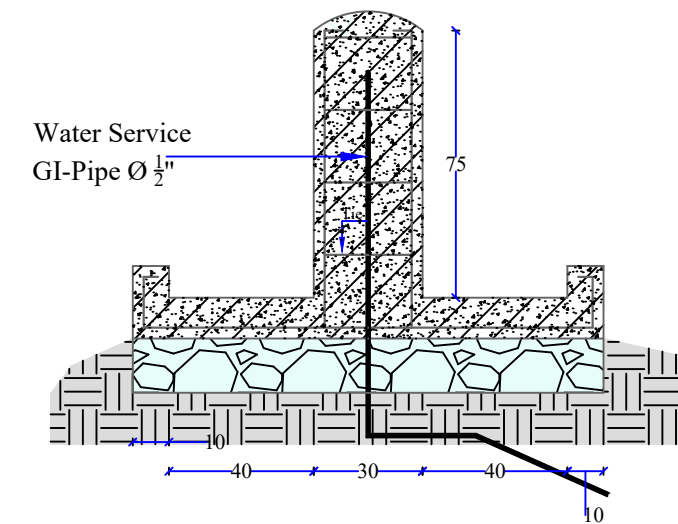
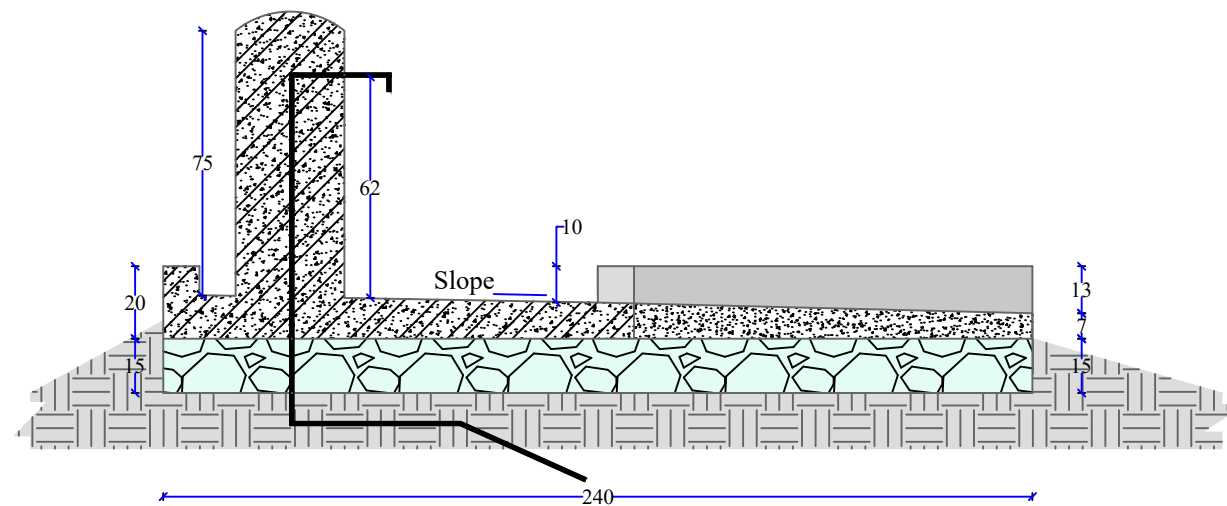
Drafted and Design BY: **IMC/WASH Team**
Review and Checked by: **Eng. Yousuf Mazhar**
Review and Approved by: **Eng. Mohammad Yasir**

Province: **Nangarhar**
District: **Sherzad**
Village: **Jangzai**


Date:
Scale: **A3-Shown**
Unit: **Centimeters**

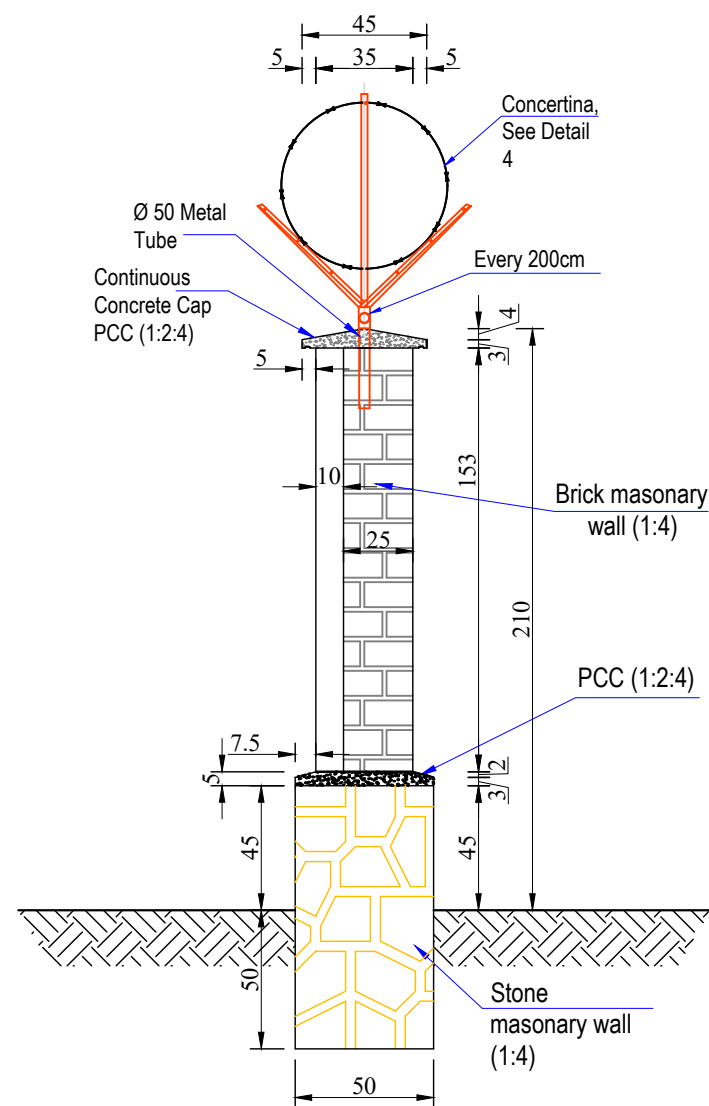
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Sheet Title: **Renfor. Plan**
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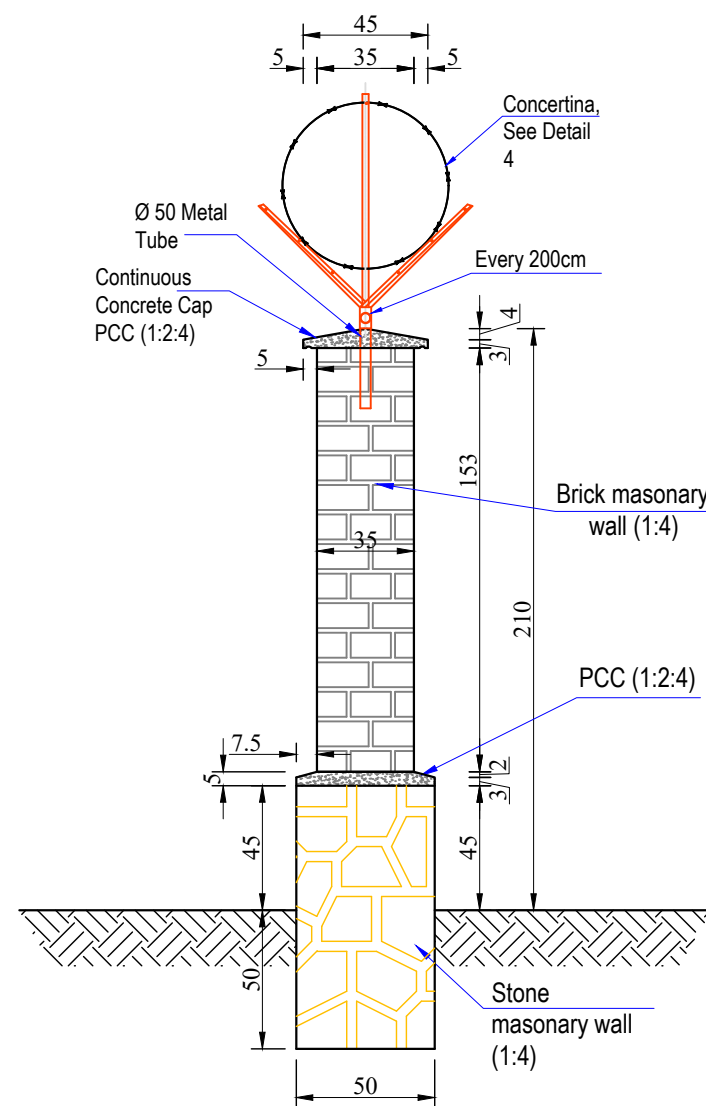


Tap Column reinfor...

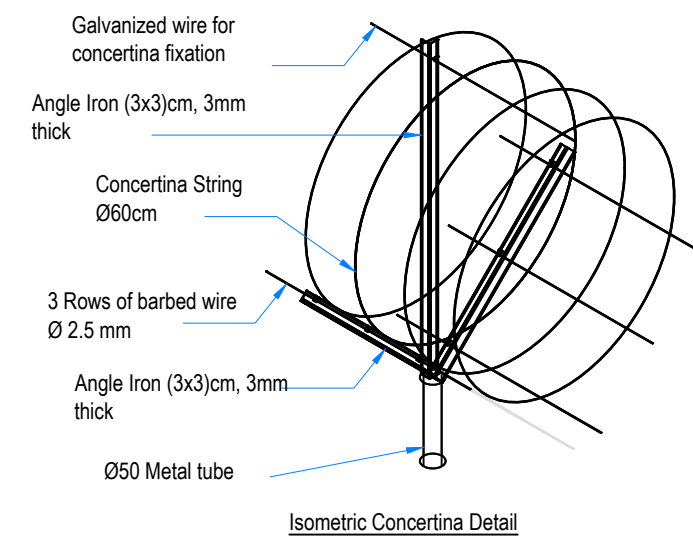
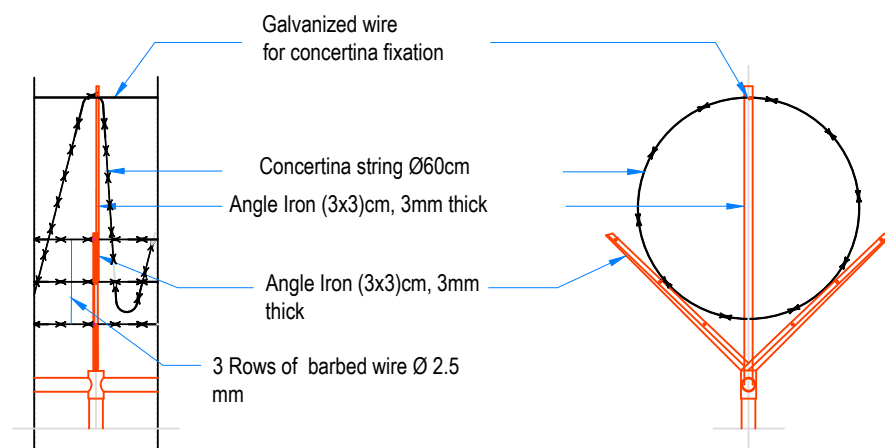
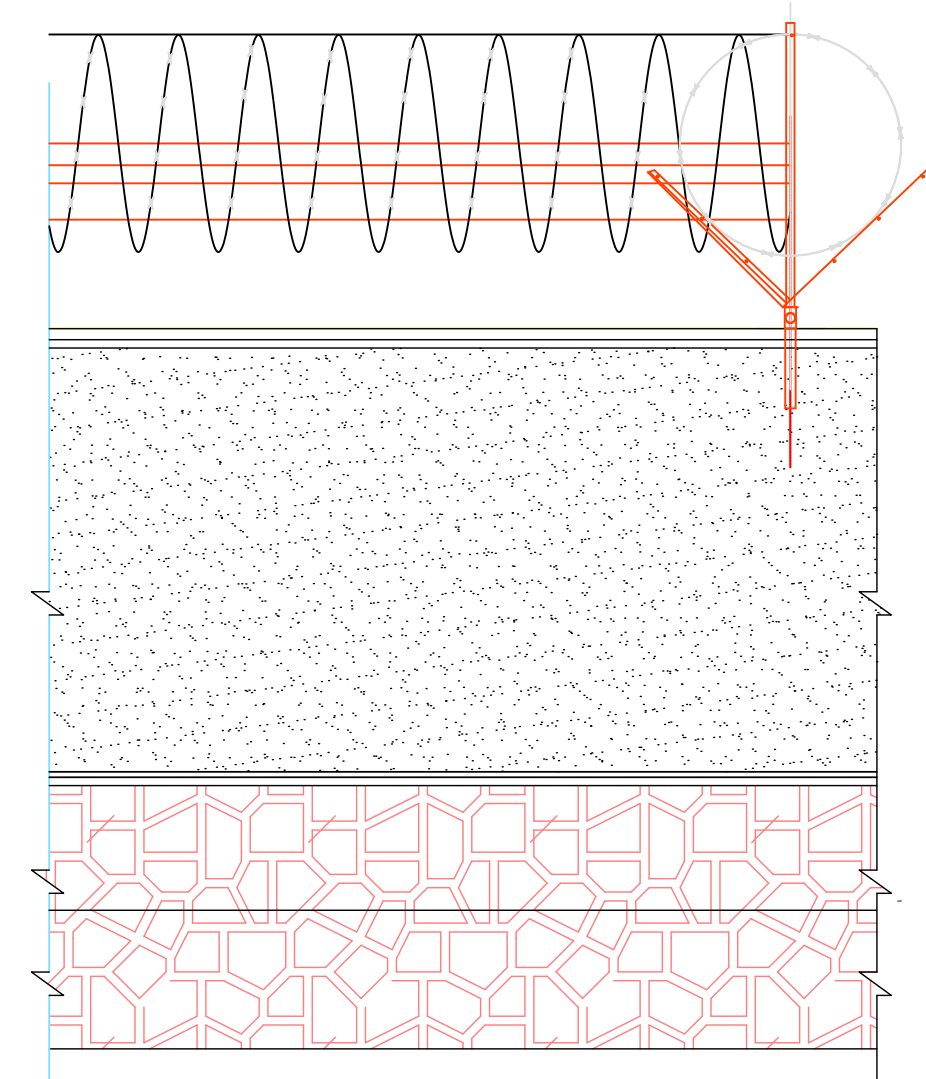
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INTERNATIONAL MEDICAL CORPS (IMC) PROGRAM DEPARTMENT WASH UNIT		Review and Checked by:	Eng. Yousuf Mazhar	District	Sherzad	Scale	A3-As shown	Sheet Title	Stand post	
		Review and Approved by:	Eng. Mohammad Yasir	Village	Jangzai	Unit	Centimeters	Sheet #	-----	



Section B-B



Section A-A



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PROGRAM DEPARTMENT
WASH UNIT

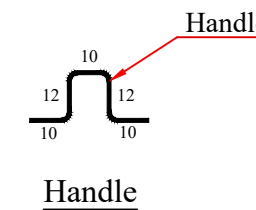
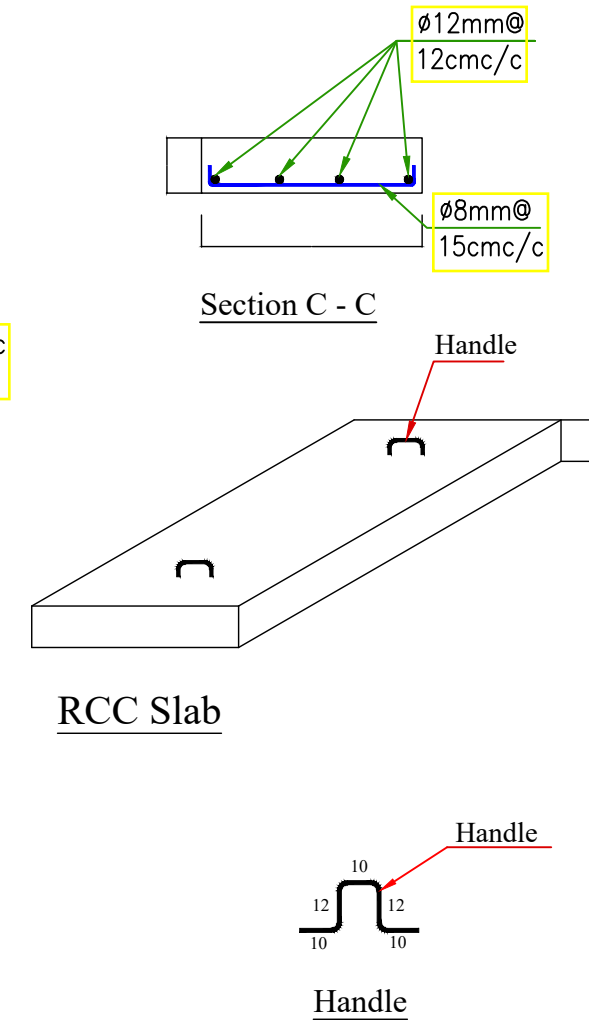
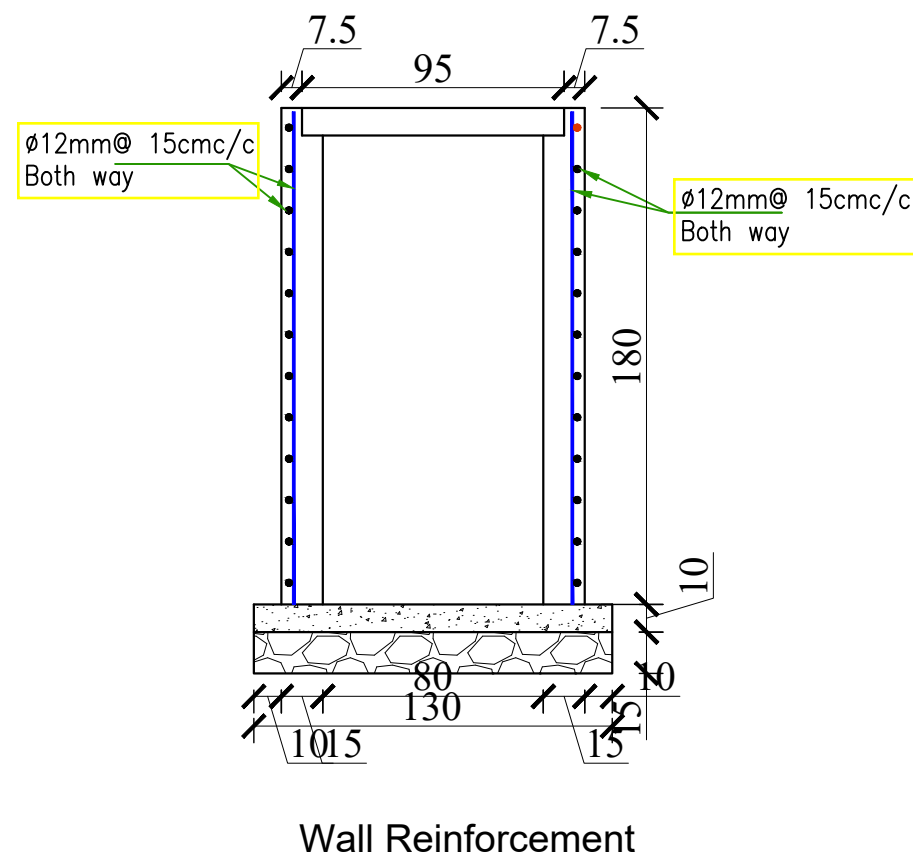
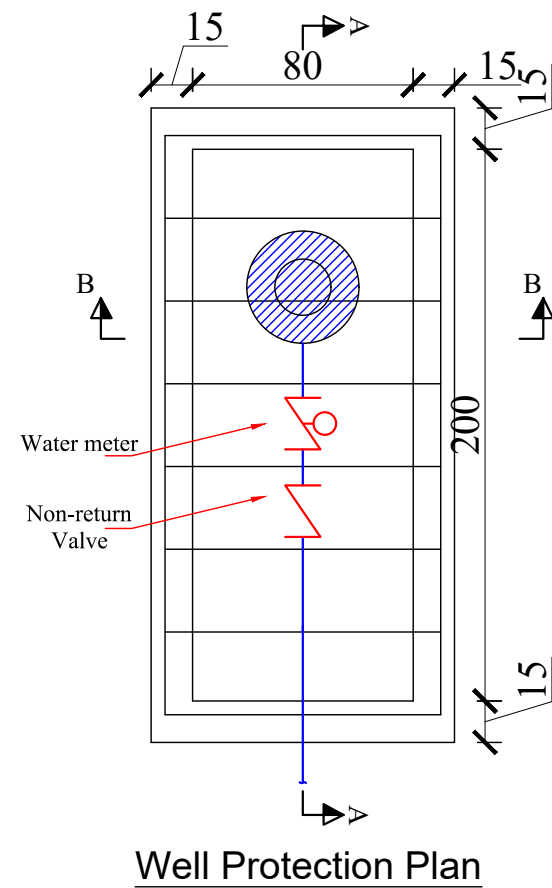
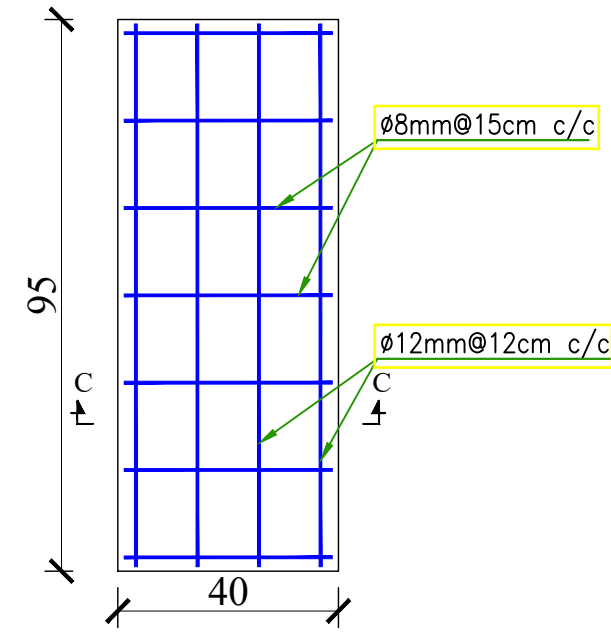
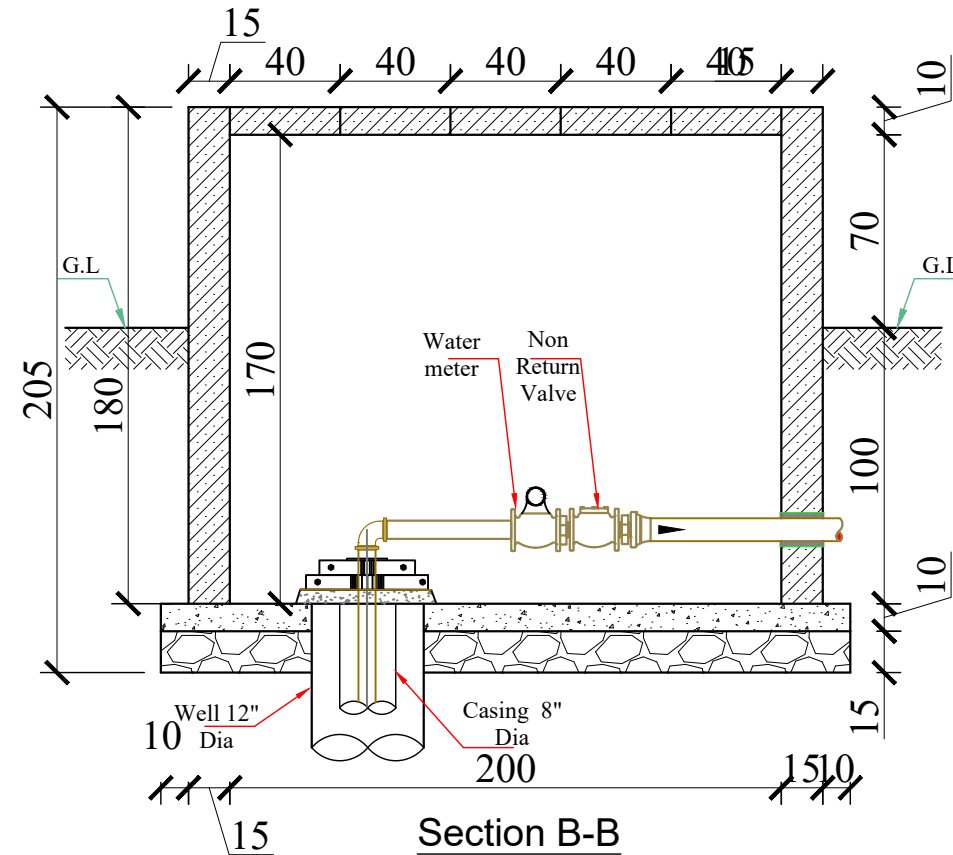
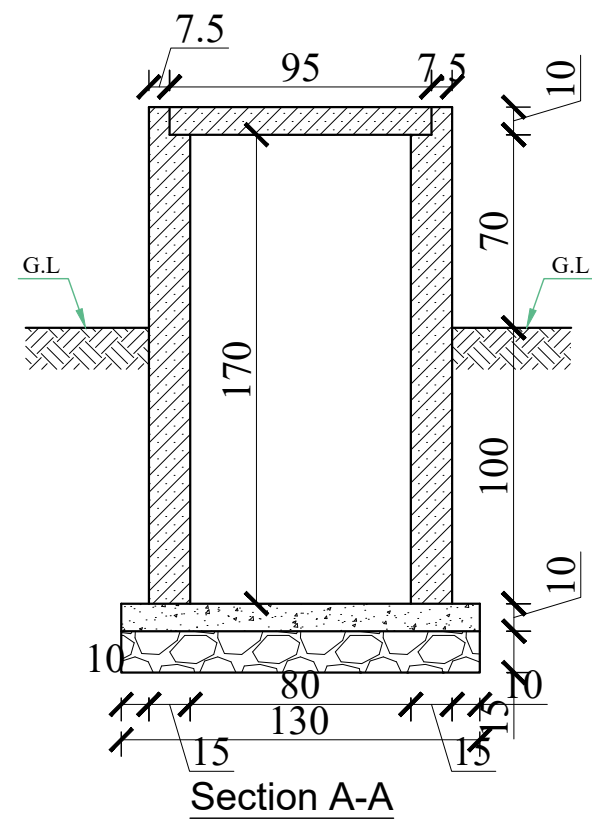
Drafted and Design BY: **IMC/WASH Team**
Review and Checked by: **Eng. Yousuf Mazhar**
Review and Approved by: **Eng. Mohammad Yasir**

Province: **Nangarhar**
District: **Sherzad**
Village: **Jangzai**

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

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





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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: Nangarhar
District: Sherzad
Village: Jangzai

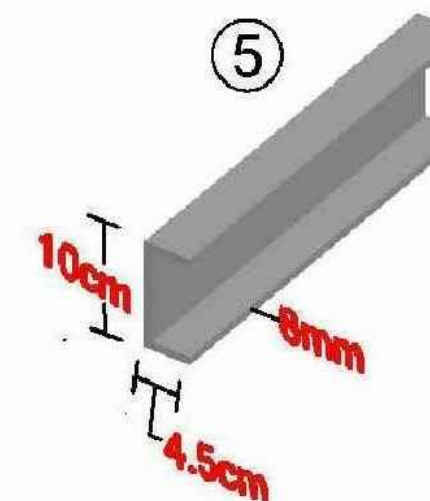
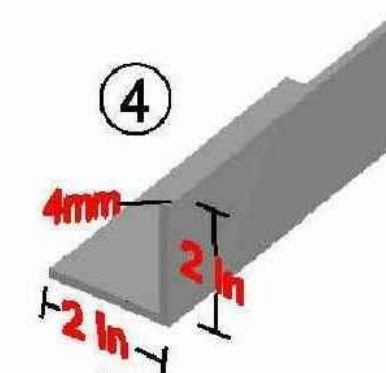
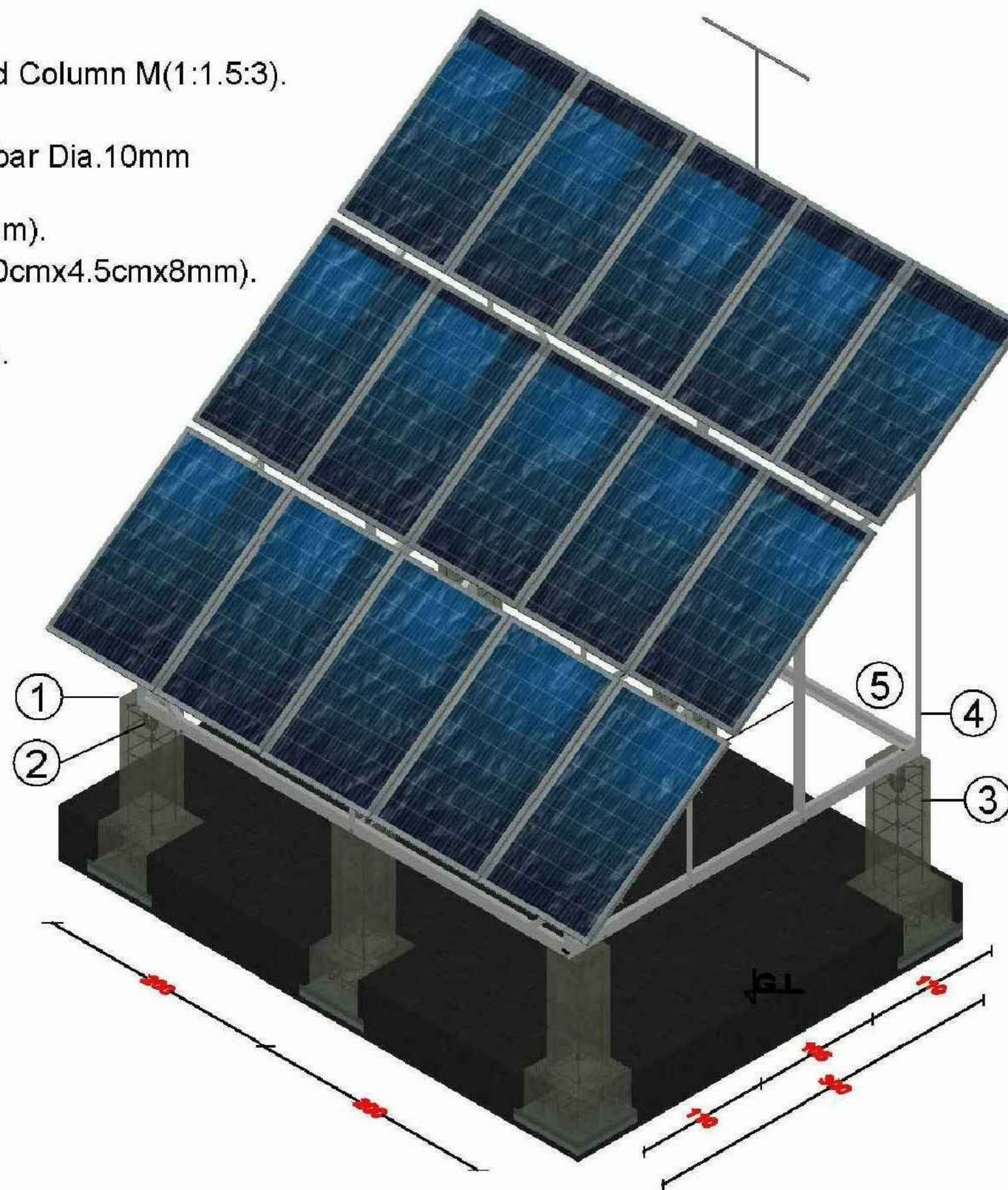
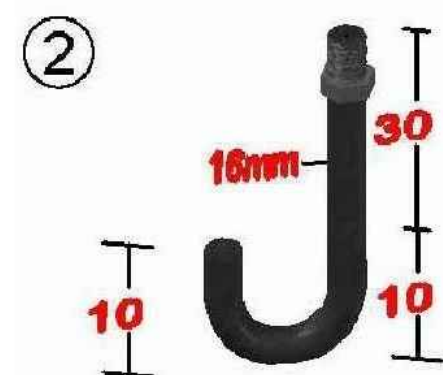
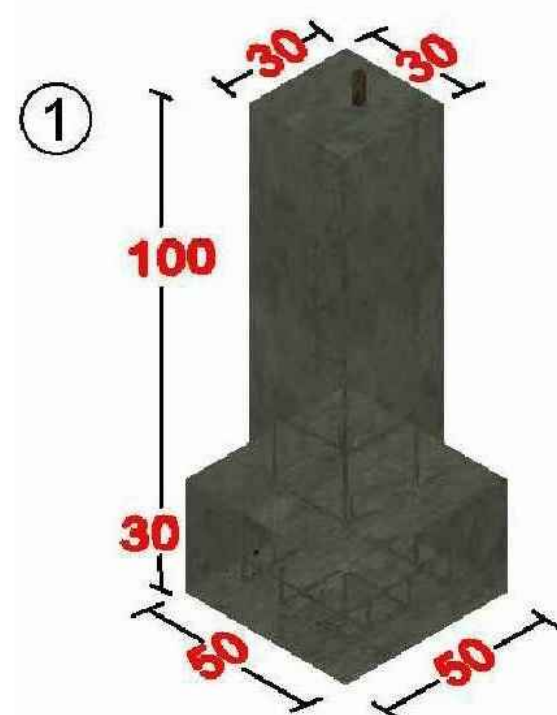
Date: Sep/2022
Scale: A3-Shown
Unit: Centimeters

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

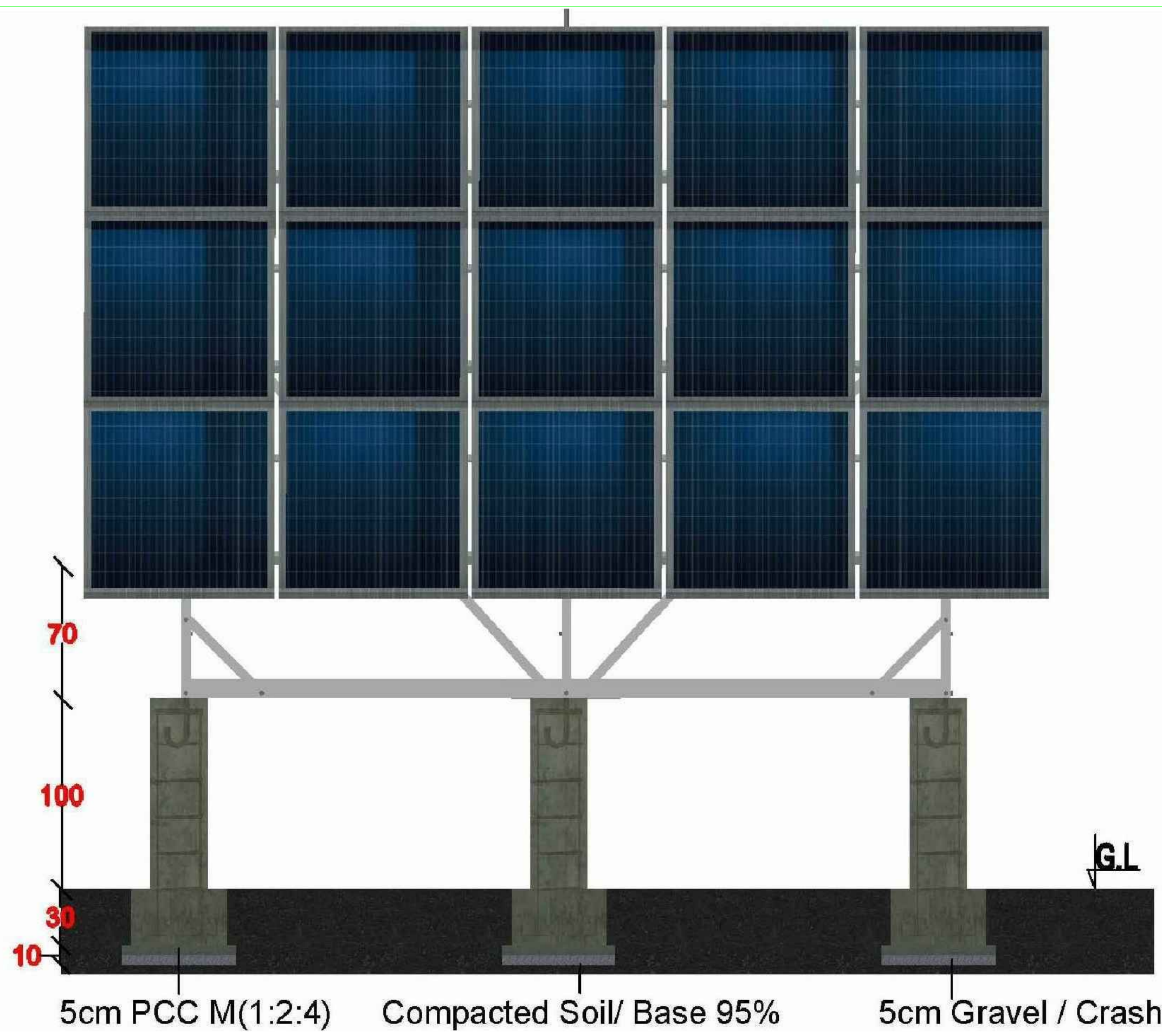
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Review and Checked by: Eng. Yousuf Mazhar
Review and Approved by: Eng. Mohammad Yasir

Province: Nangarhar
District: Sherzad
Village: Jangzai

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

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





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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

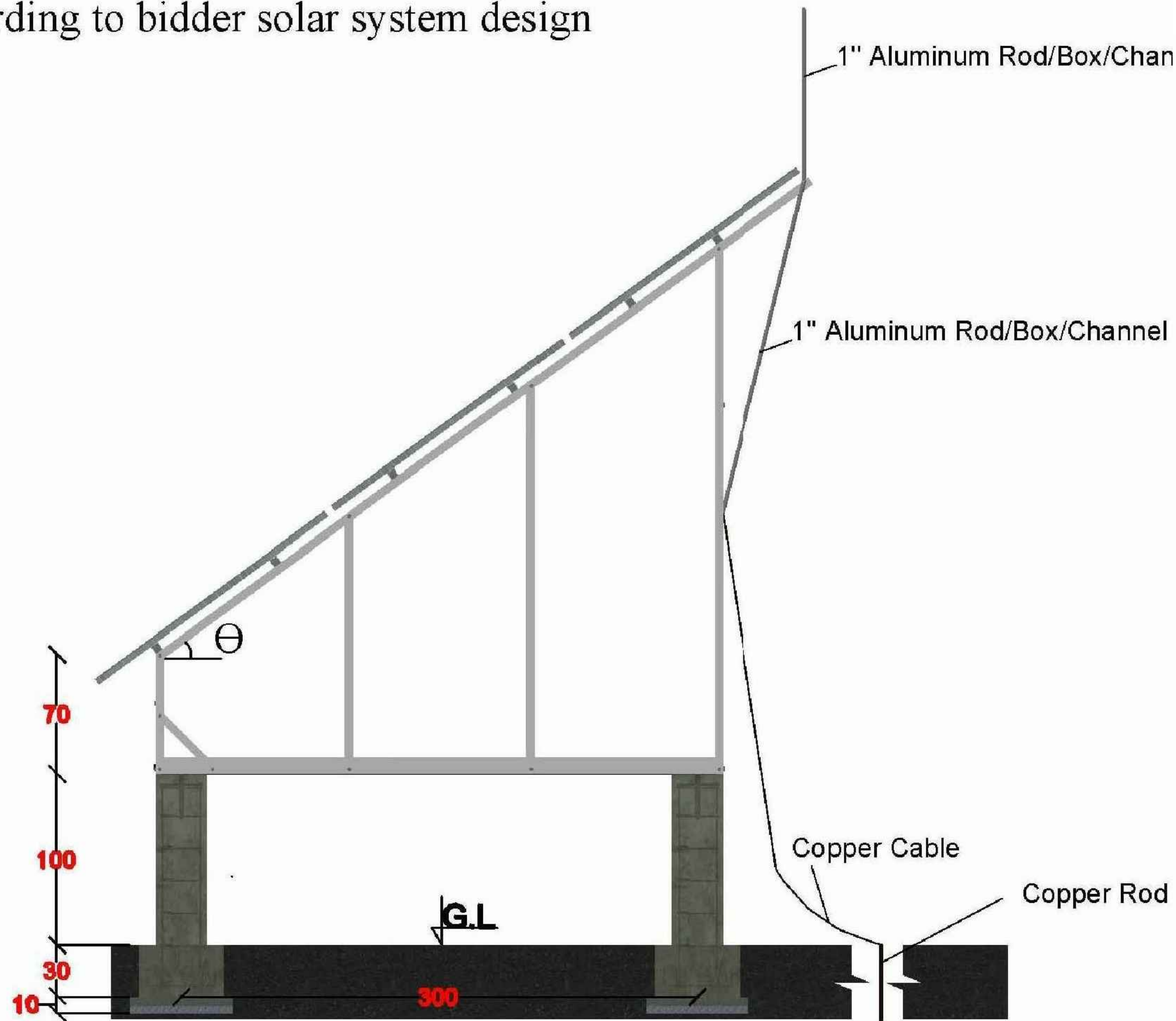
Province	Nangarhar
District	Sherzad
Village	Jangzai

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

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



Angle Θ = According to bidder solar system design



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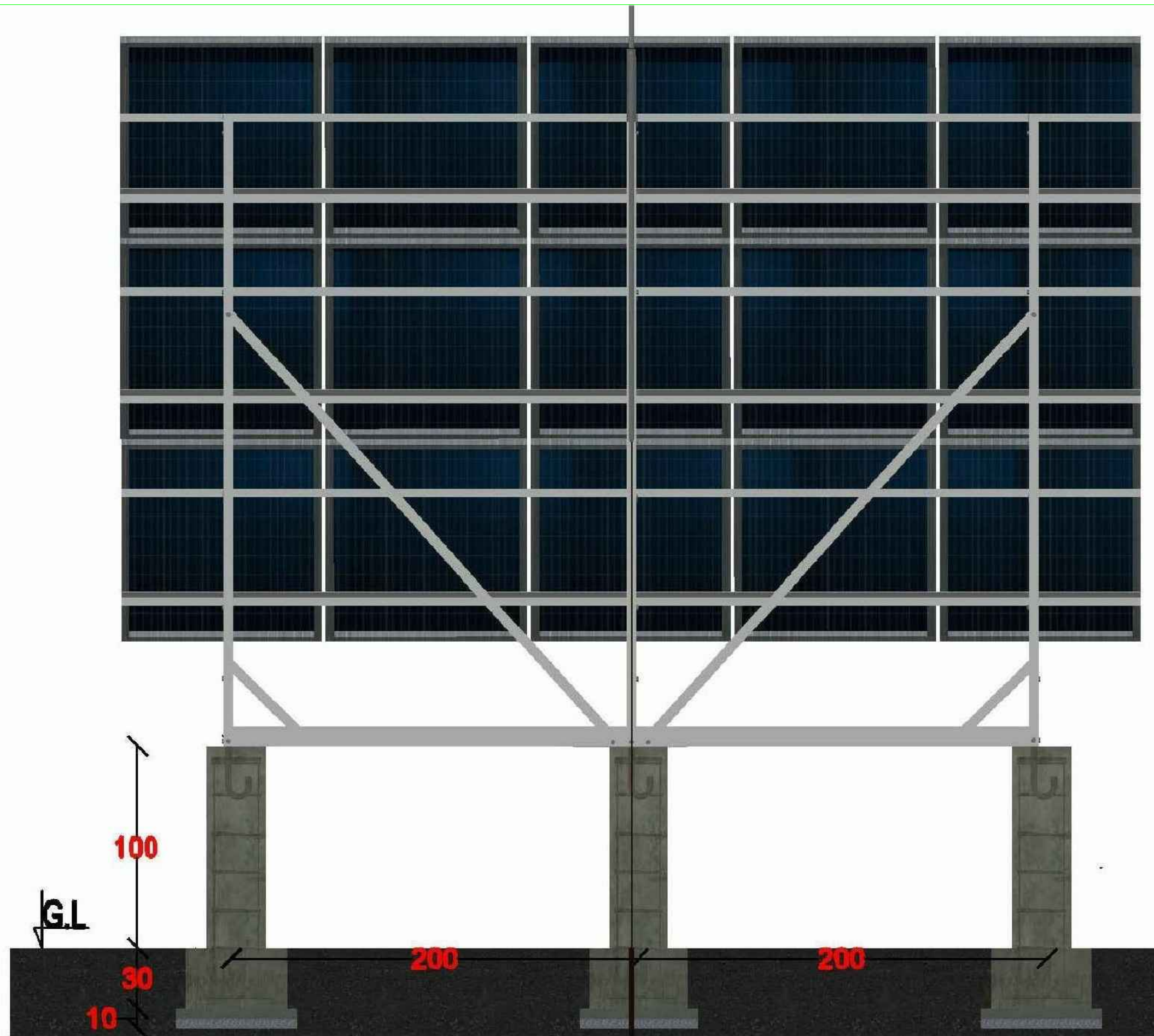
Drafted and Design BY: IMC/WASH Team
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Province: Nangarhar
District: Sherzad
Village: Jangzai

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

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





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Village	Jangzai

Date	Sep/2022
Scale	A3-Shown
Unit	Centimeters

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

