





# Sarkano-Dunyaee, Shamir Kot Village water Supply Project

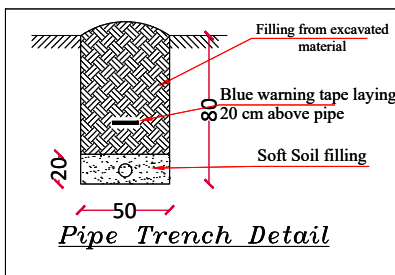
## LEGEND

Proposed Well	⊙
Main line	—
Distribution Line	—
Reservoir Area	⊕
Tertiary Road	~
Village houses	□
Agricultural Land	⊕
Mosque	⬢
Hill	⬢
Control Valve	⋈

## Note:

Type of soil :#3 to #5  
 Population : **2100**  
 House Number: **120** Houses , 3 Mosque,  
 and one Girls primary school  
 Static water level :55m  
 Dynamic water level:90 m  
 Total depth :120m  
 Drilling type : Rotary 12".

Point Table				
Point #	Elevation	Latitude	Longitude	Description
1	812	N 3848406	E 692238	RESERVOIR
2	798	N 3848452	E 691925	WELL



**IRW**

Islamic Relief Worldwide  
 WASH Initiative for Strengthening Health (WISH)

Department: WASH  
 Drawing Title: Final Site Plan

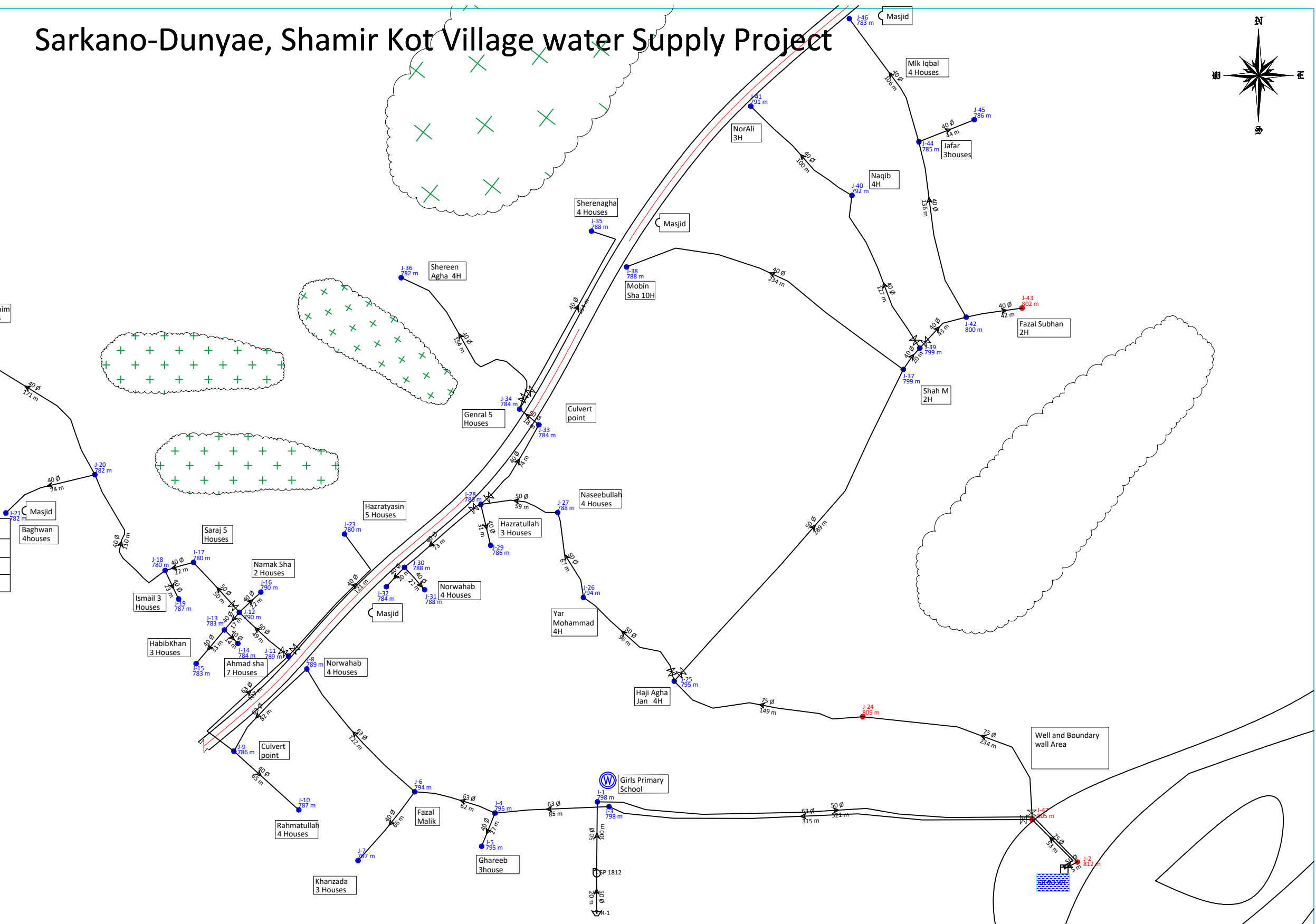
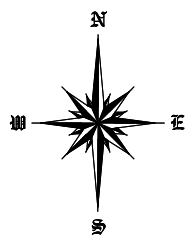
All dimension in cm otherwise stated

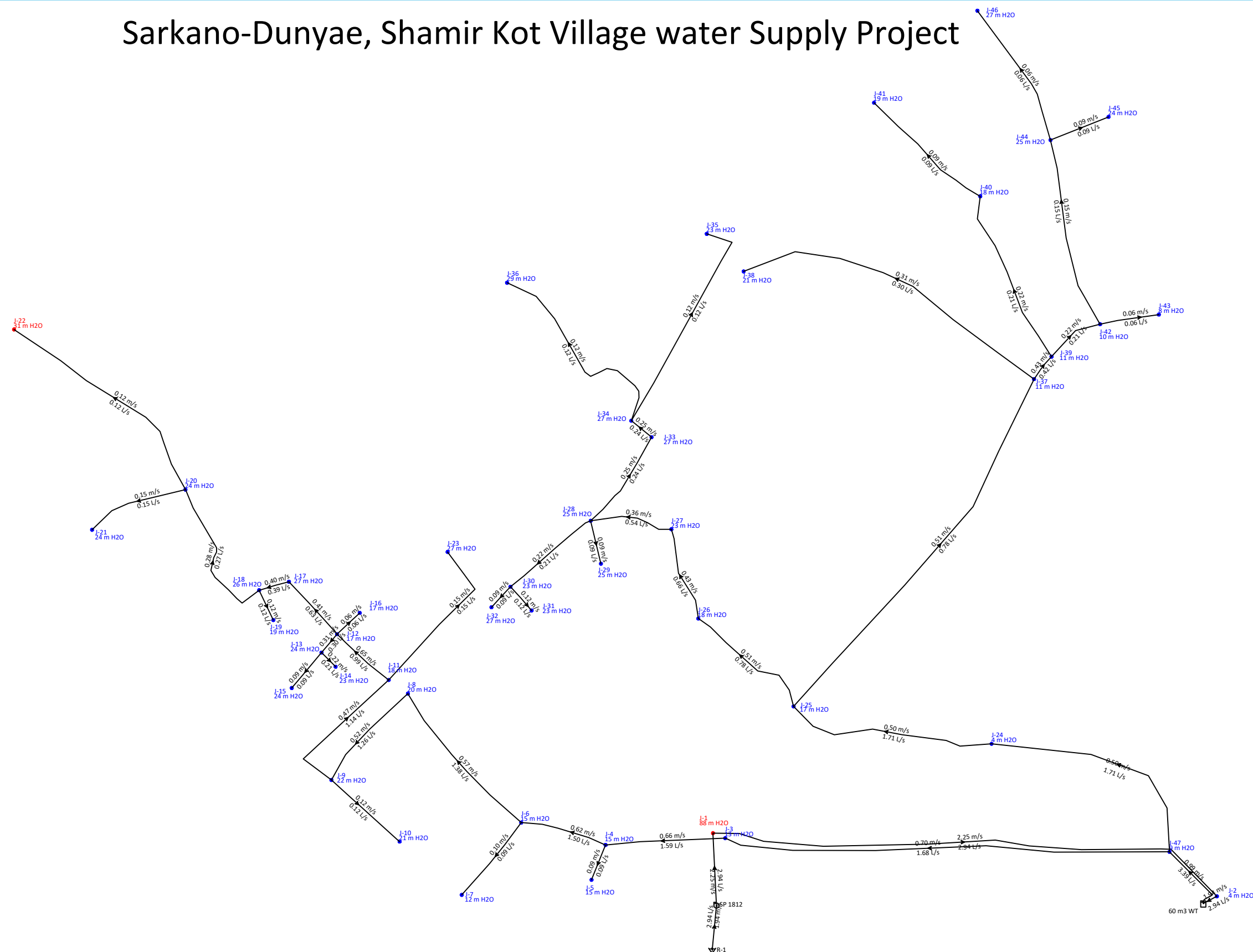
Surveyed by: Abdul Majeed "Khamosh"  
 Drawing & designed by: Abdul Majeed "Khamosh"  
 Review & check by: Eng. M. Tahir "Safi"  
 Approved by: Eng. Shah Faisal

SHEET No. **2**  
**18**  
 05-May-2024

PROVINCE: *Kunar*  
 DISTRICT: *Sarkano*  
 VILLAGE: *Shamirkot*


**WISH**




$$JRW$$

Department	WASH
Drawing Title	Node ID, Flow in (L/s), Velocity in (m/s) and Pressure in (mH2O)

All dimension in (m)  
otherwise stated

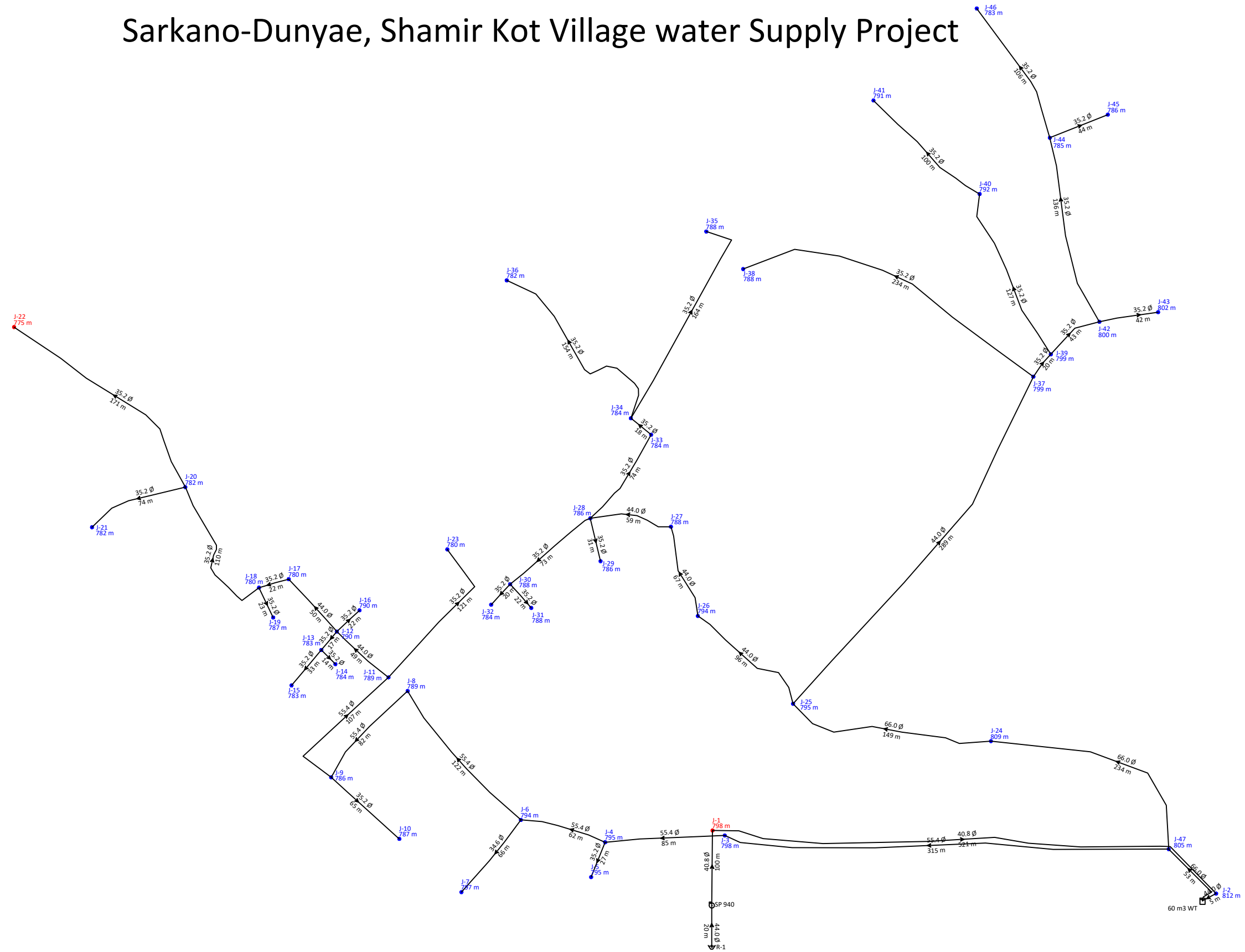
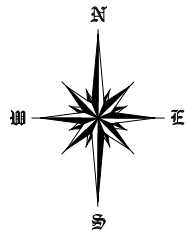
SHEET NO. 

05-May-2024

<i>PROVINCE</i>	<i>Kunar</i>
<i>DISTRICT</i>	<i>Sarkana</i>
<i>VILLAGE</i>	<i>Shamirkot</i>

 $\mathcal{WJS\mathcal{H}}$

# Sarkano-Dunyaee, Shamir Kot Village water Supply Project



**IRW**

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department	WASH
Drawing Title	Node ID, Length in (m), In Dia in (mm) and Elevation in (m)

All dimension in (m)  
otherwise stated

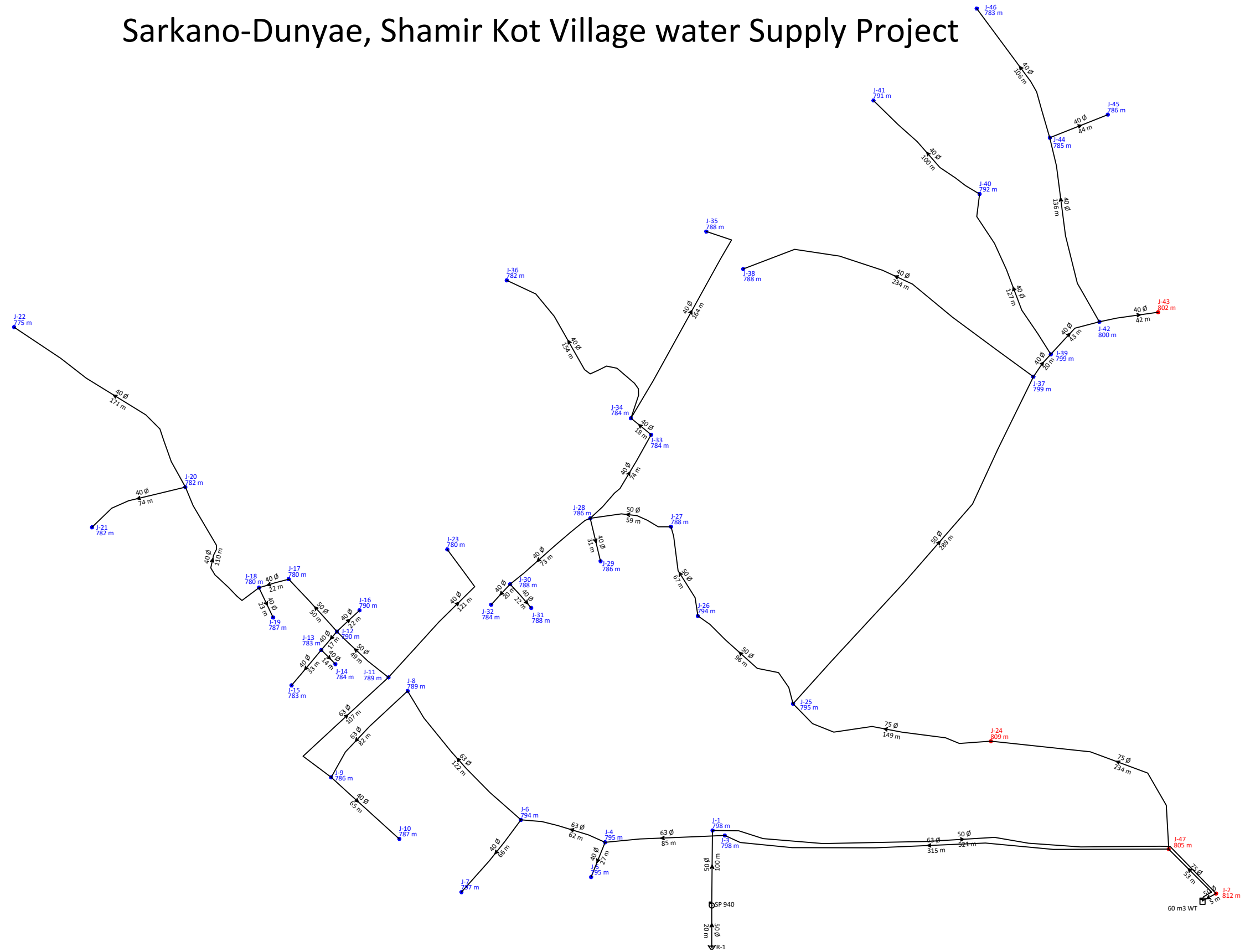
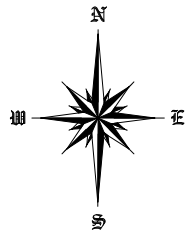
Surveyed by	Abdul Majeed Khamosh
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET No. **4/18**  
05-May-2024

PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Shamirkot

**WISH**

# Sarkano-Dunyaee, Shamir Kot Village water Supply Project



**IRW**

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department	WASH
Drawing Title	Node ID, Length in (m), out Dia in (mm) and Elevation in (m)

All dimension in (m)  
otherwise stated

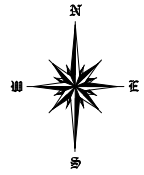
Surveyed by	Abdul Majeed Khamosh
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET No. **5/18**  
05-May-2024

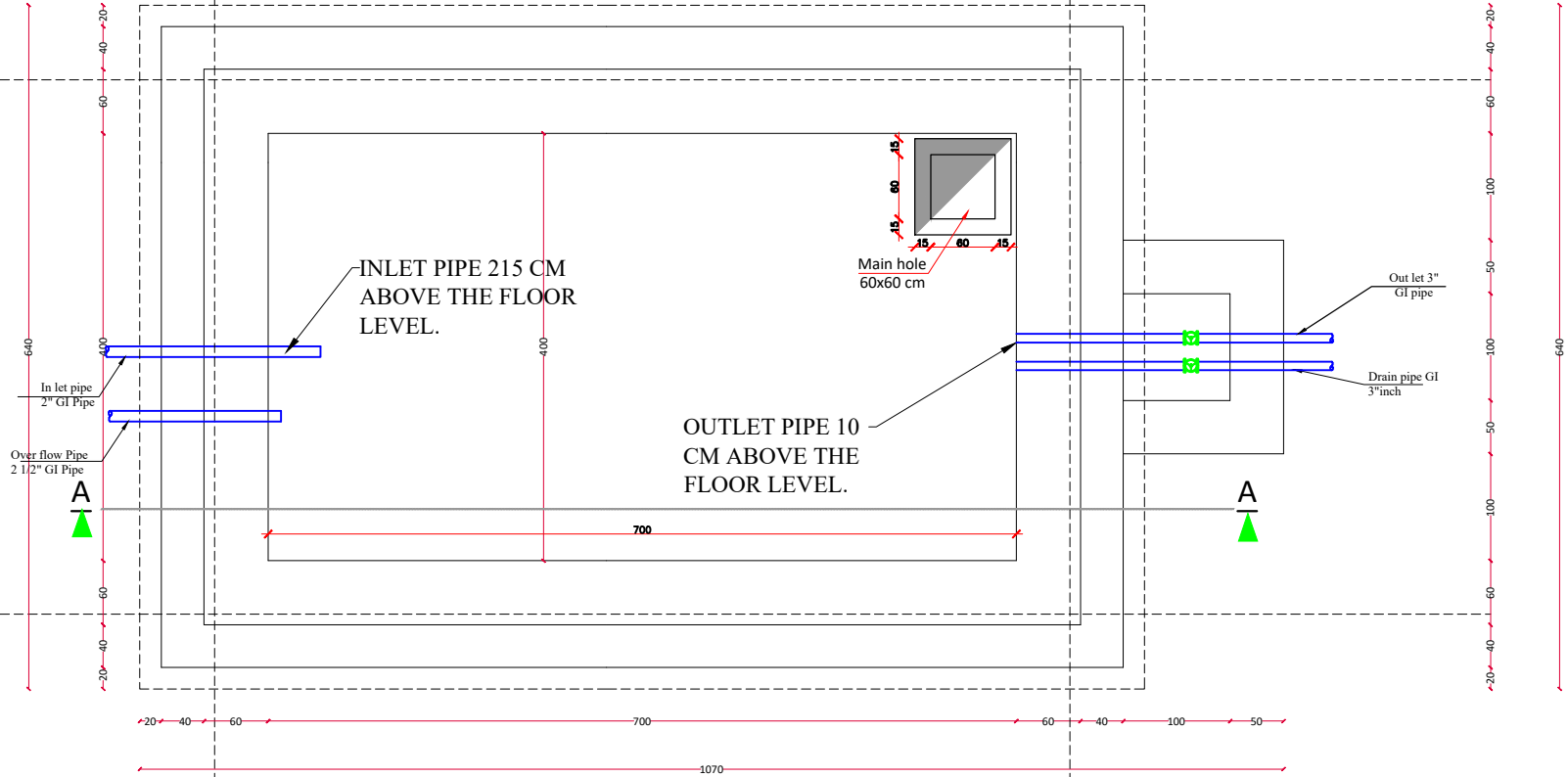
PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Shamirkot

**WISH**

# PLAN



A



B

1

2



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department	WASH
Drawing Title	60 Cubic Meter Stone Masonry Reservoir Plan

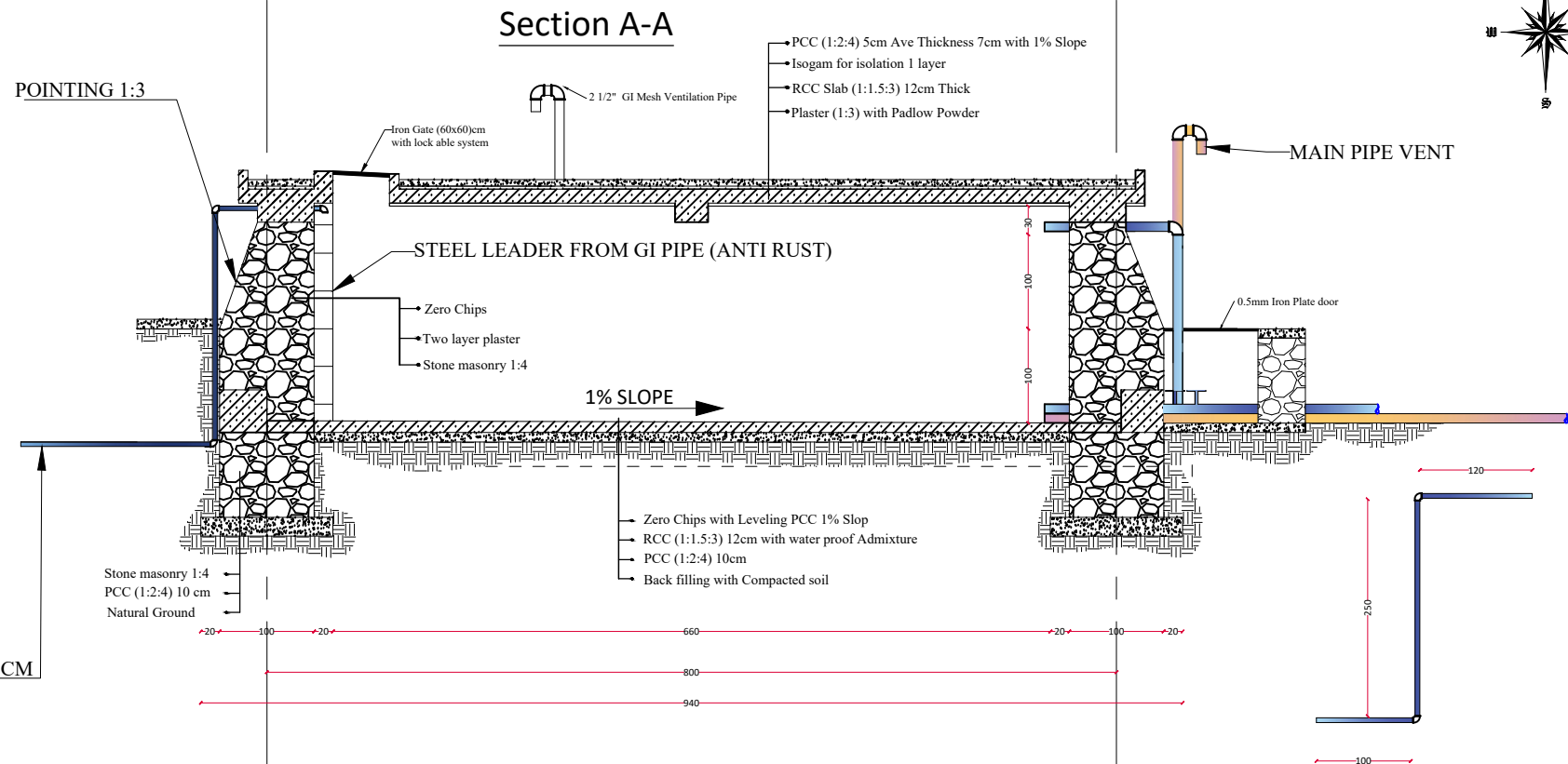
All dimension in cm  
otherwise stated

Surveyed by	WASH team
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

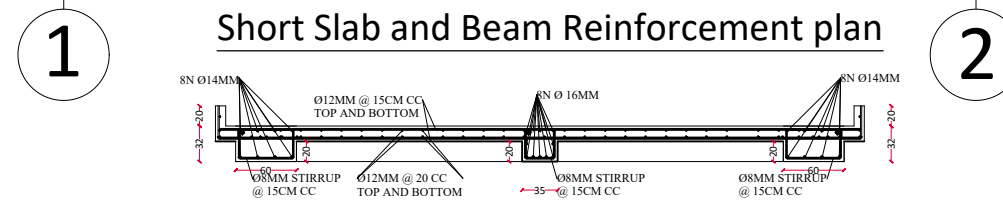
SHEET NO.	6/18
DATE	05-May-2024

PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Shamirkot

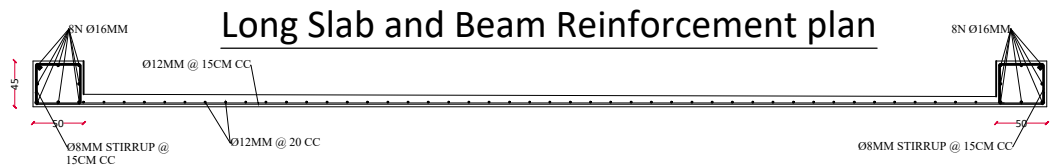
WISH  
Project



**Short Slab and Beam Reinforcement plan**



**Long Slab and Beam Reinforcement plan**



**IRW**

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department: WASH  
Drawing Title: Water Reservoir Section A-A

All dimension in cm  
otherwise stated

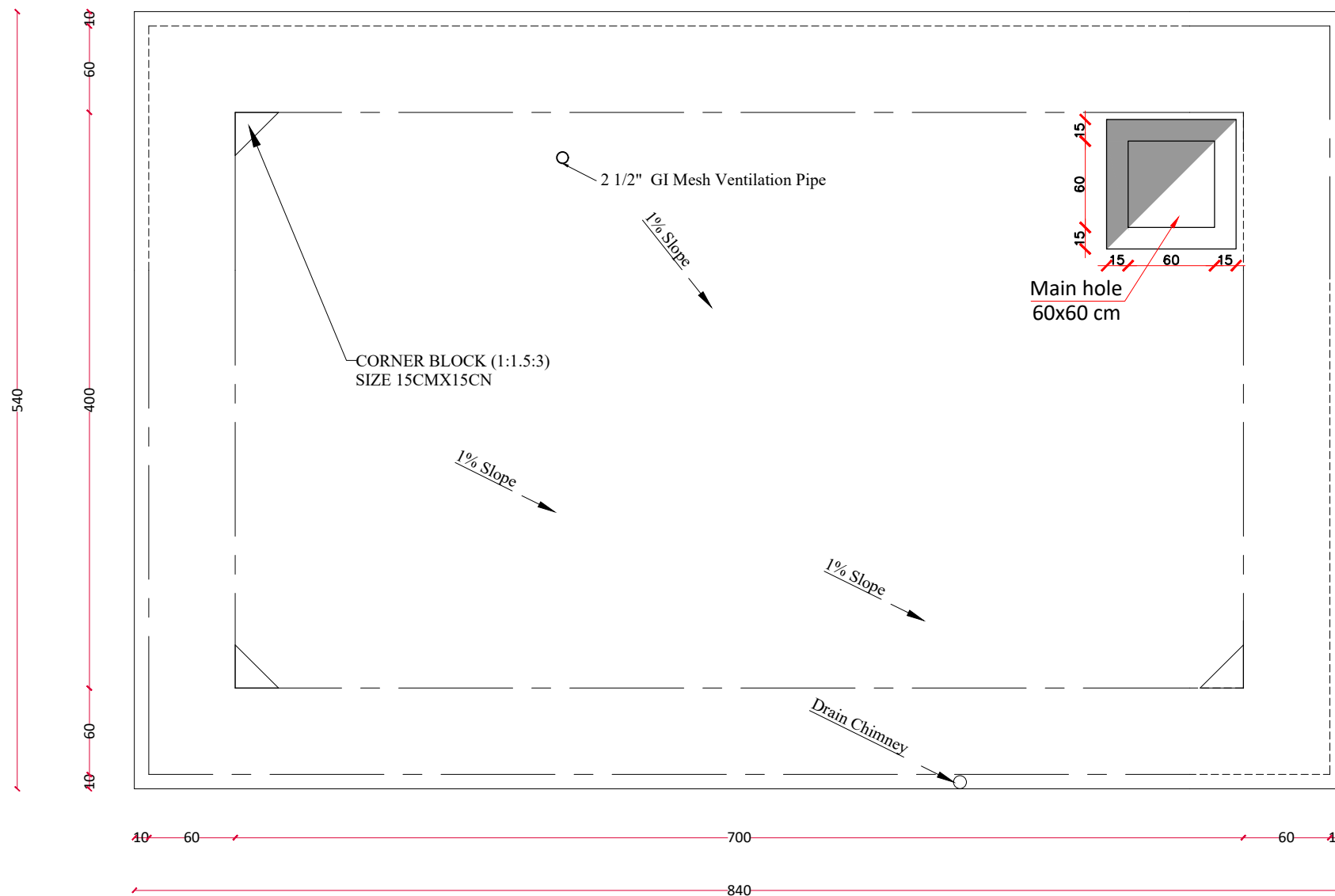
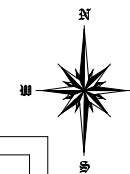
Surveyed by: WASH team  
Drawing & designed by: Abdul Majeed "Khamosh"  
Review & check by: Eng. M. Tahir "Safi"  
Approved by: Eng. Shah Faisal

SHEET NO. 7/18  
05-May-2024

PROVINCE: Kunar  
DISTRICT: Sarkano  
VILLAGE: Shamirkot

**WISH Project**

# Roof Drain Plan



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department	WASH
Drawing Title	Reservoir Drain Plan

All dimension in cm  
otherwise stated

Surveyed by	WASH team
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET NO.	8/18
05-May-2024	

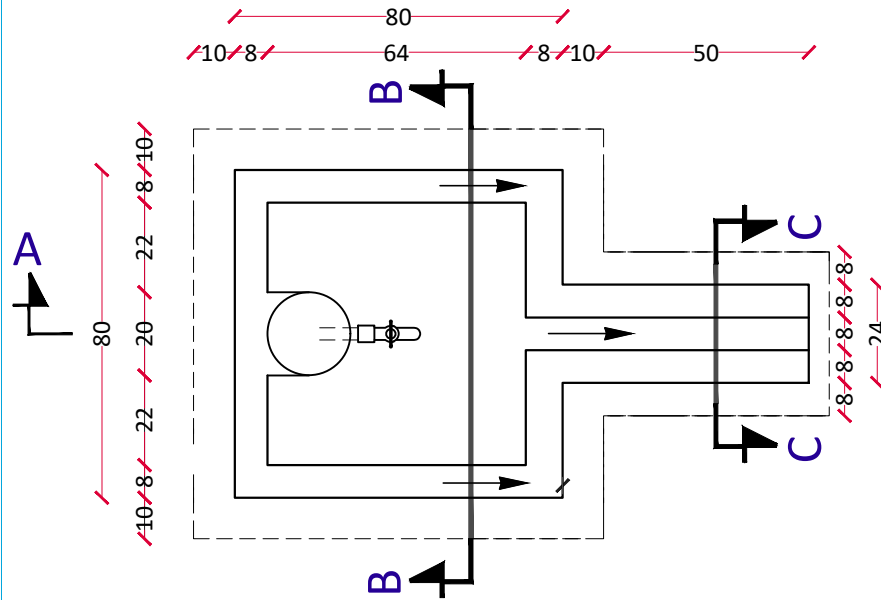
PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Shamirkot

WISH  
Project

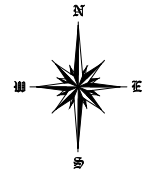
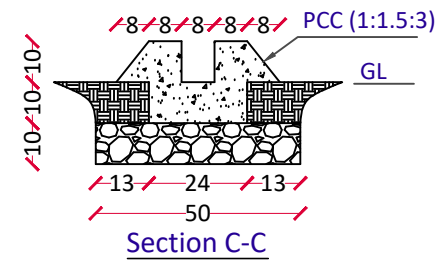
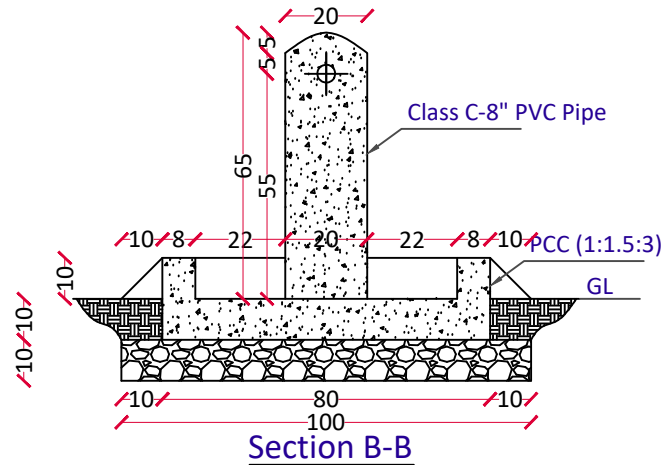
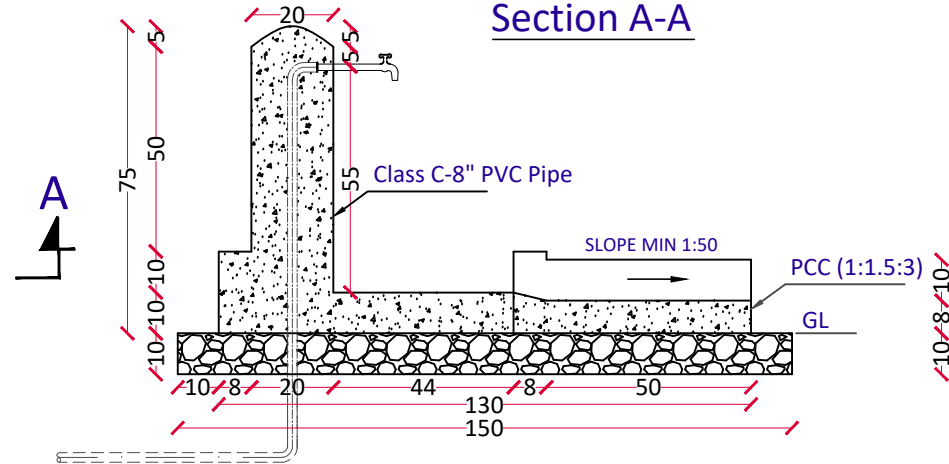




# Stand Tap



## Section A-A



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department: WASH  
Drawing Title: House connection stand tape

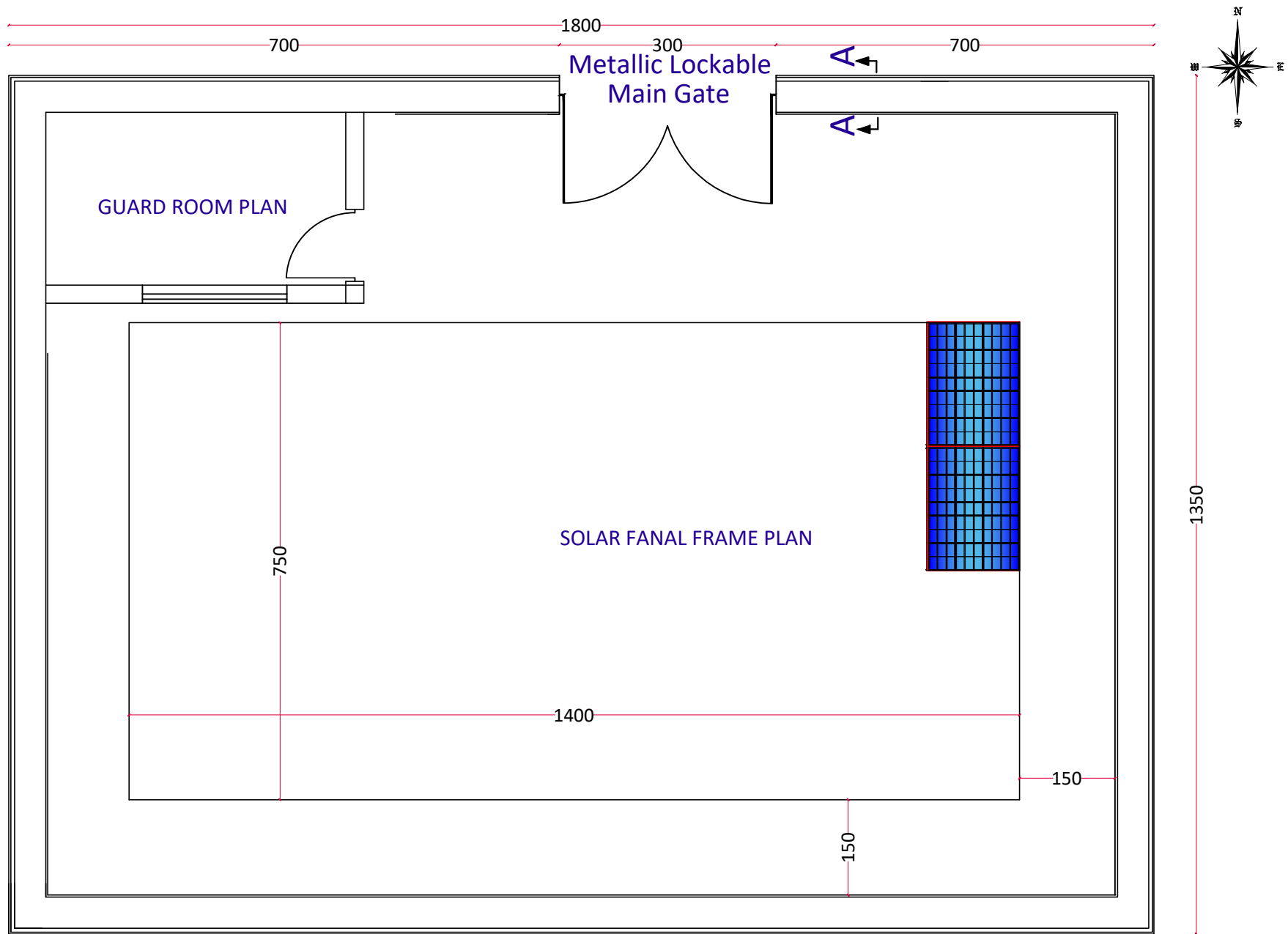
All dimension in cm  
otherwise stated

Surveyed by: WASH team  
Drawing & designed by: Abdul Majeed "Khamosh"  
Review & check by: Eng. M. Tahir "Safi"  
Approved by: Eng. Shah Faisal

SHEET NO. 10/18  
05-May-2024

PROVINCE: Kunar  
DISTRICT: Sarkano  
VILLAGE: Shamirkot

WISH  
Project



**IRW**

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department	WASH
Drawing Title	Boundary wall and Guard room plan

All dimension in cm  
otherwise stated

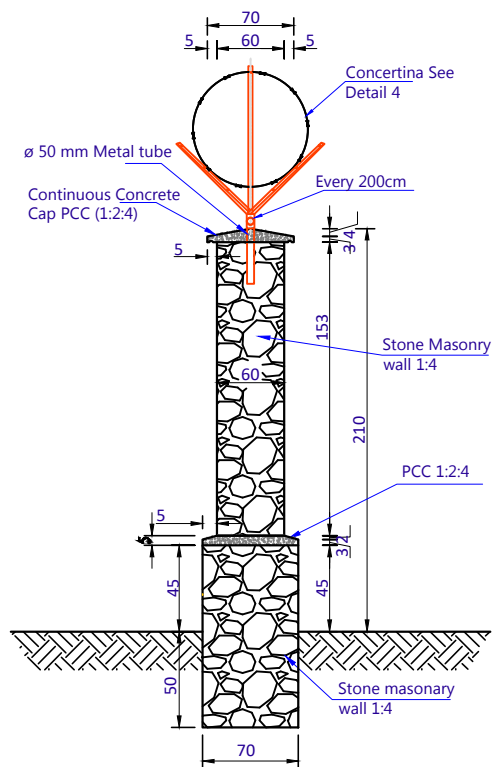
Surveyed by	WASH team
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

SHEET NO.	11/18
05-May-2024	

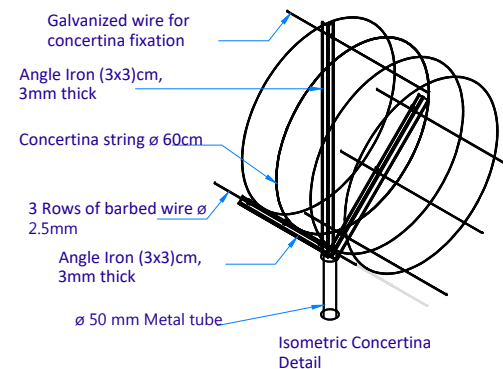
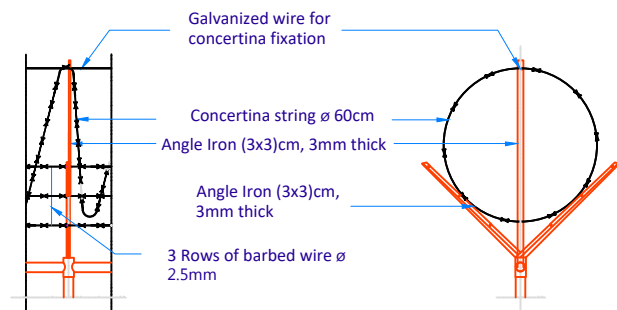
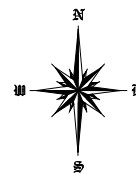
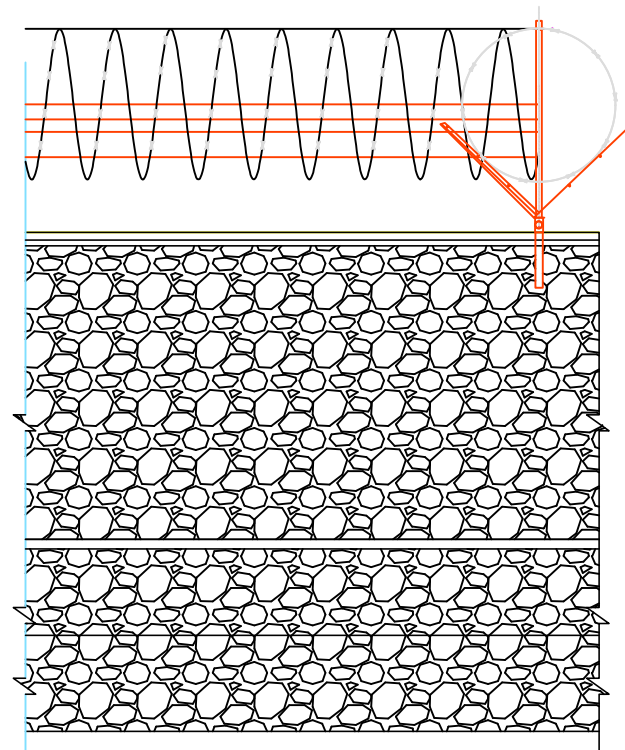
PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Shamirkot

**WISH  
Project**





Section A-A



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department WASH  
Drawing Title boundary section and barbed wire plan

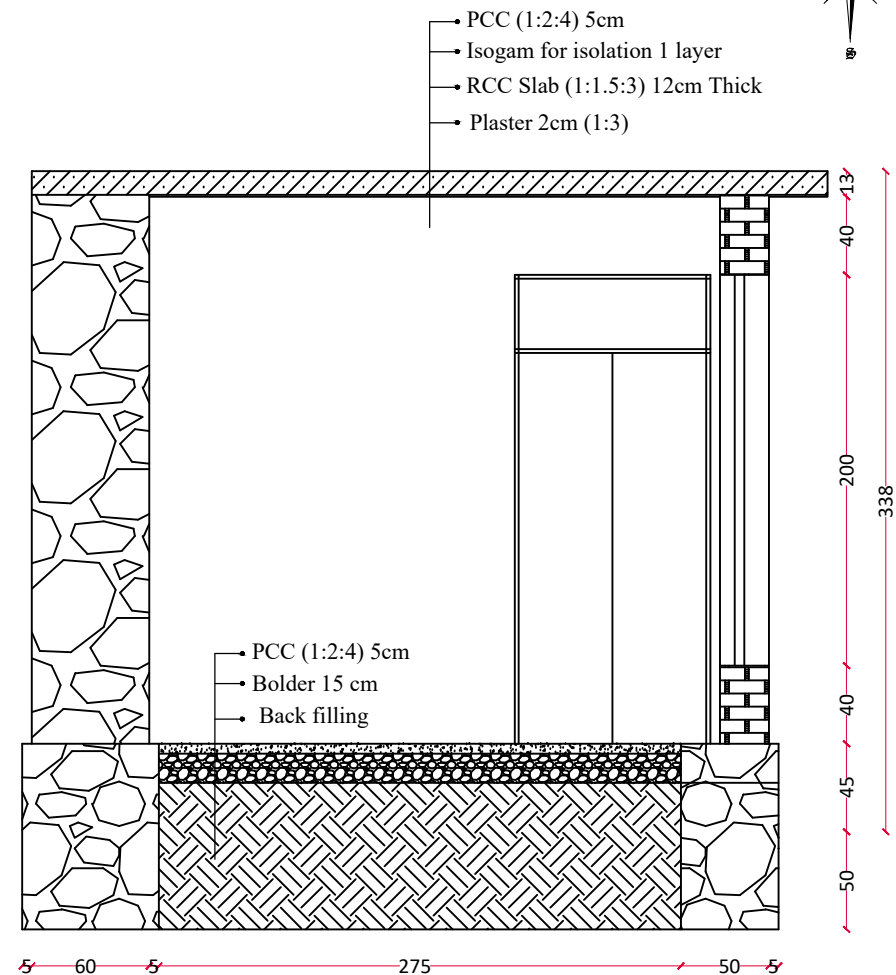
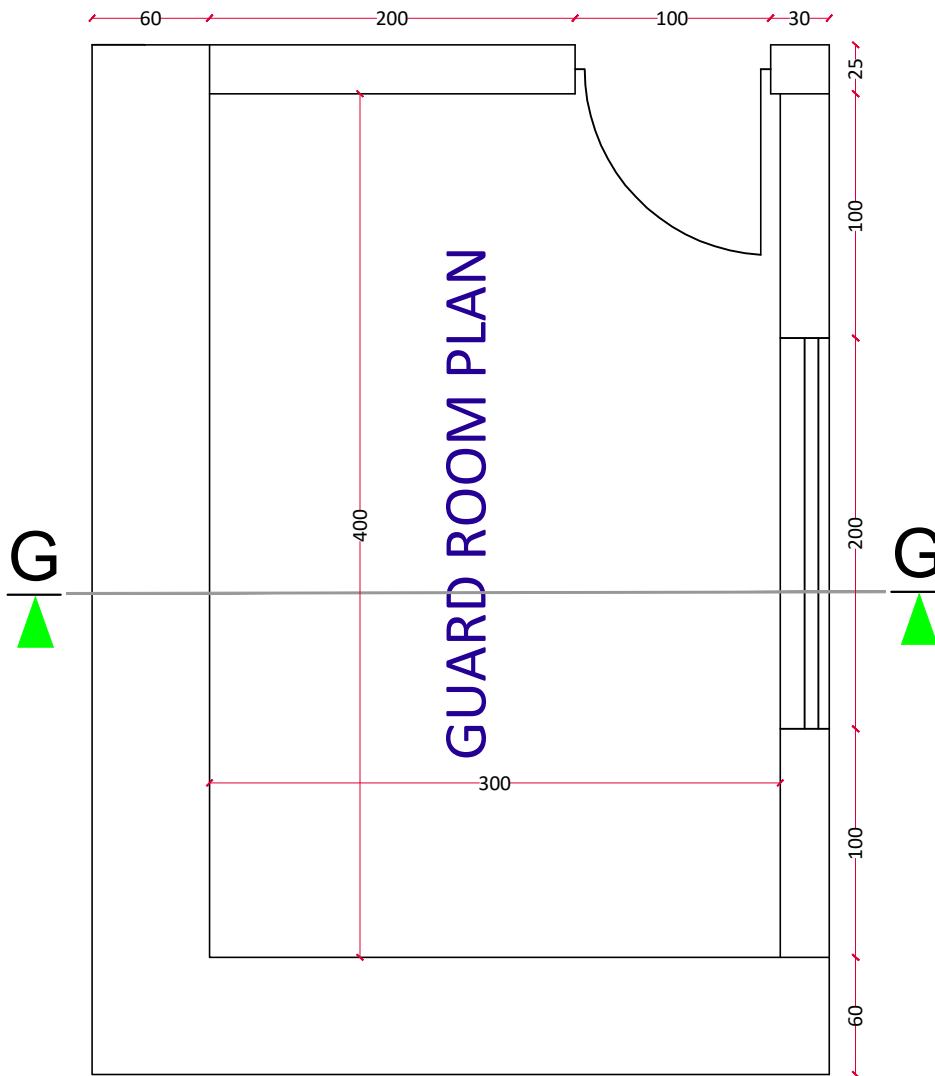
All dimension in cm  
otherwise stated

Surveyed by WASH team  
Drawing & designed by Abdul Majeed "Khamosh"  
Review & check by Eng. M. Tahir "Safi"  
Approved by Eng. Shah Faisal

SHEET NO. 12/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Sarkano  
VILLAGE Shamirkot

WISH  
Project



**IRW**

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department: WASH  
Drawing Title: Guard Room Plan

All dimension in cm  
otherwise stated

Surveyed by: WASH team  
Drawing & designed by: Abdul Majeed "Khamosh"  
Review & check by: Eng. M. Tahir "Safi"  
Approved by: Eng. Shah Faisal

SHEET NO. 13/18  
05-May-2024

PROVINCE: Kunar  
DISTRICT: Sarkano  
VILLAGE: Shamirkot

**WISH  
Project**

60 m<sup>3</sup>

Ground RCC  
Reservoir

50 mm 16 bar PE Pipe 350m

Electricity Cable  
from Control  
Unit

Control Unit

Electricity Cable  
from Control  
Unit

## Solar Panels

Support structure

Solar pump

**وت**

تمام لرقام برای این چاه دشمنی بوده که از مملکت چاه های نزدیک این ساحه اخذ گردیده و مملکت شایق این چاه بعد از حفاری و پمپ تست آن بهتست خواهد آمد، در صورت تغییر مقدار آبدهی ممکن که در مشقت سوار و اثر پمپ و تعداد پمپ های آن افزایش خواهد گردید.


$$JRW$$

Department	WASH
Drawing Title	TDH

All dimension in cm  
otherwise stated

Surveyed by	WASH team
Drawing & designed by	Abdul Majeed "Khamosh"
Review & check by	Eng. M. Tahir "Safi"
Approved by	Eng. Shah Faisal

**SHEET NO.**  **05-May-2024**

PROVINCE	Kunar
DISTRICT	Sarkano
VILLAGE	Sera

WJSH  
Project

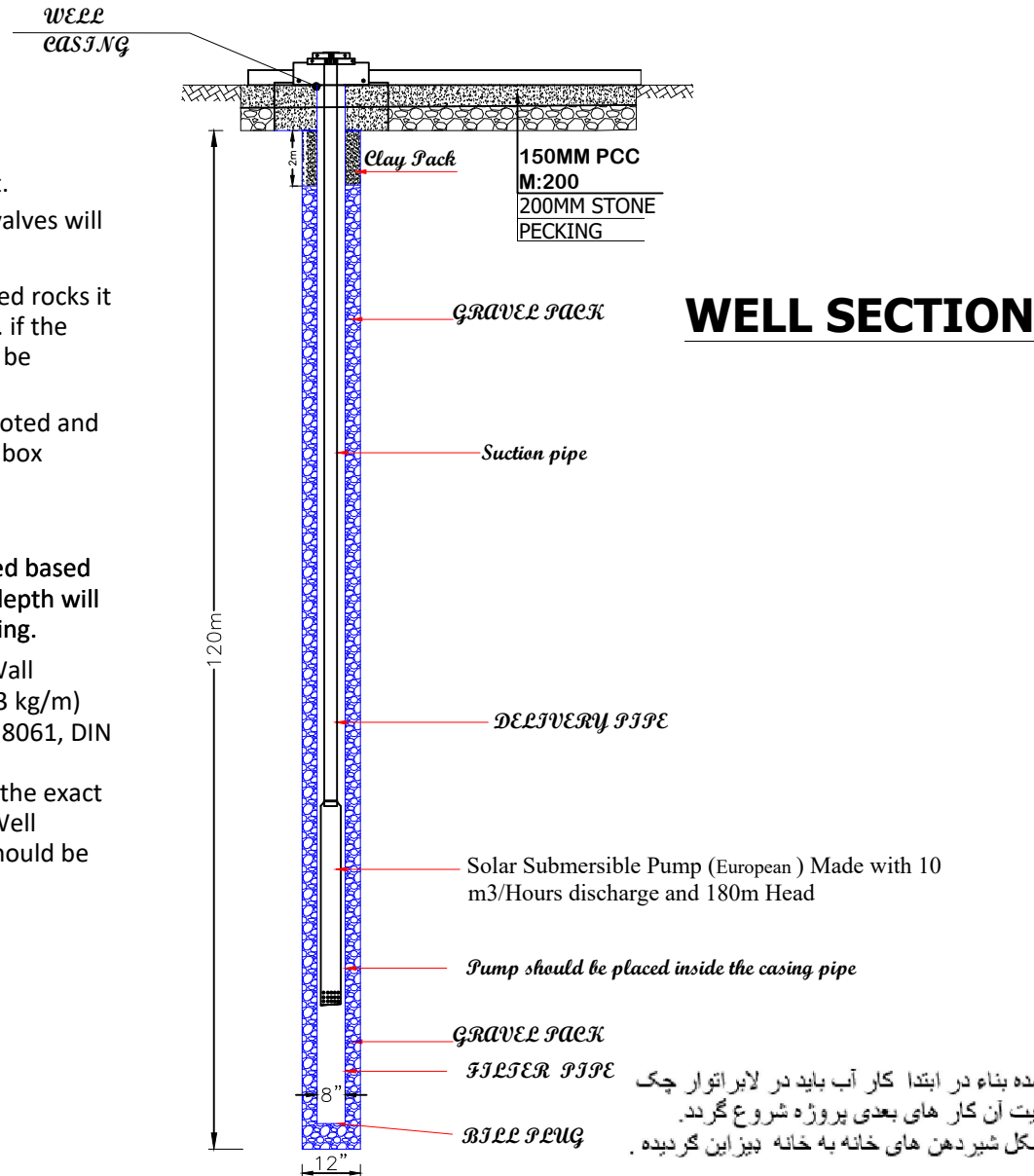


# Sarkano-Dunayae, Shamirkot Village water Supply Project



## Notes

- 1-Well designed by WASH department.
- 2-The working pressure for pipes and valves will be 16 or 20 bar ( 290 PSI )
- 3- If the ground stratum are made of bed rocks it no need for installation of casing pipes. if the stratum are made of Loss soil it should be stablized by installation casing pipes.
- 4-Each drilled strata depth should be noted and soil sample should be kept in a sample box separately .
- 5-Pump test for 8 hours.
- 6-the depth of filter pipe has considered based on the previous experience . the true depth will be determined after well practical drilling.
- 7-Diameter=(8") inches, Class D, Min Wall Thickness (10.3 ) mm, Min weight (10.3 kg/m) According to ASTM D1785 Sch.80, DIN 8061, DIN 8062, ASTM F480 Standards
- 8-the Size of Gravel Packing (3-6) mm, the exact size will be declared after boring and Well Hydrological calculations, the Gravel should be clean and technical acceptable



نوت:  
از اینکه آب چاه در لایراتوار تست نشده بناء در ابتدا کار آب باید در لایراتوار چک شود و بعد از حصول اطمینان از کیفیت آن کار های بعدی پروژه شروع گردد. همچنان نظر به مشخصات شبکه به شکل شیر دهن های خانه به خانه دیزاین گردیده .



**IRW**

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department WASH  
Drawing Title Well Section

All dimension in cm  
otherwise stated

Surveyed by WASH team  
Drawing & designed by Abdul Majeed "Khamosh"  
Review & check by Eng. M. Tahir "Safi"  
Approved by Eng. Shah Faisal

DATE 17/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Sarkana  
VILLAGE Shamirkot

**WISH Project**

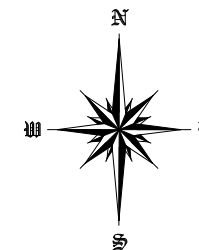
# Sarkano- Dunyae- ShamirKot Village water Supply Project

between two solar panel vertical array frame should have 10 cm space for air vent to protect the solar frame from sliding and overturning.

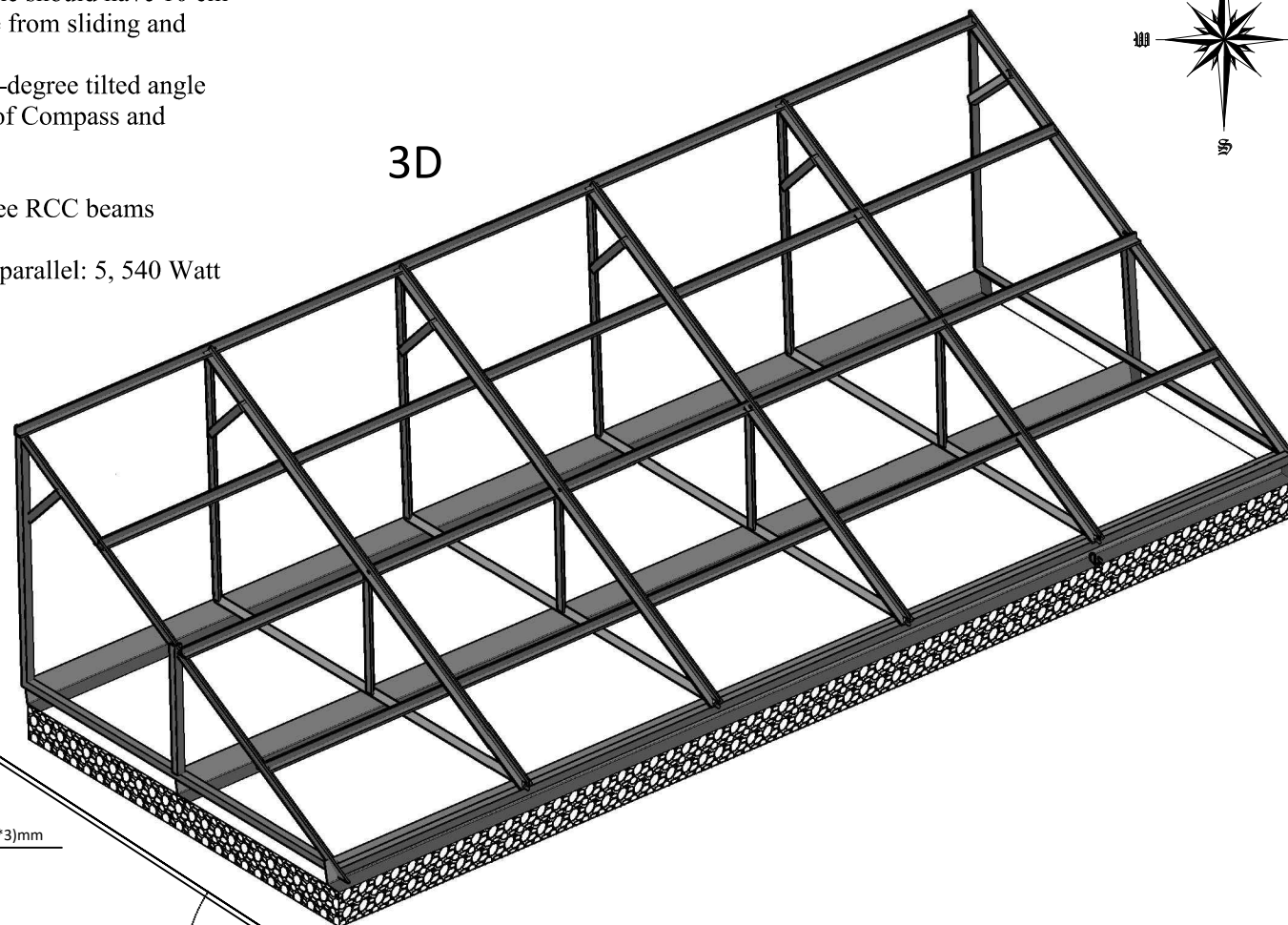
4- the solar panel's frame should have a 33-degree tilted angle with the surface of the yard as instruction of Compass and Groundfos software's and product.

5- under the frame we have (30\*30)cm three RCC beams according to the drawing

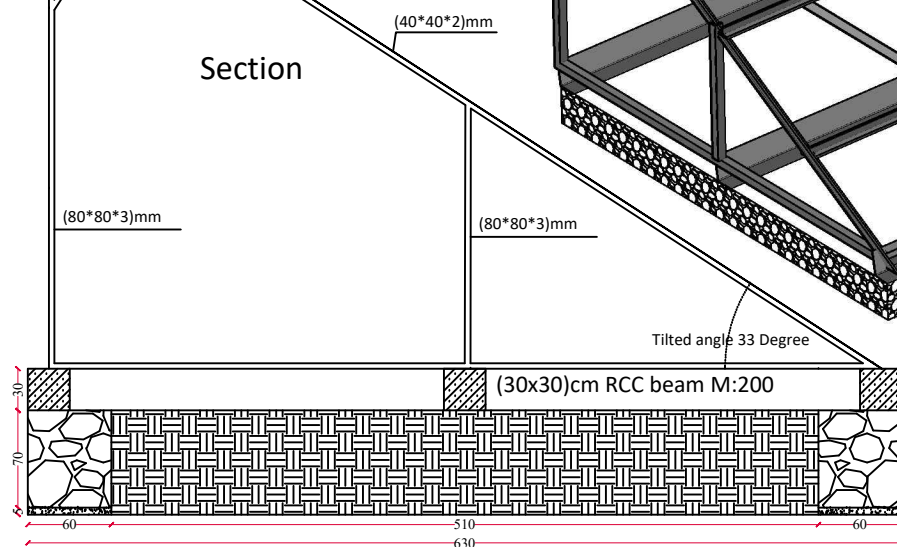
6- Number of solar modules in series: 4 in parallel: 5, 540 Watt or 4 in Parallel: 10, 270Watt



3D



Section



IRW

Islamic Relief Worldwide  
WASH Initiative for Strengthening Health (WISH)

Department WASH  
Drawing Title Solar Panel Plan Details

All dimension in cm  
otherwise stated

Surveyed by WASH team  
Drawing & designed by Abdul Majeed "Khamosh"  
Review & check by Eng. M. Tahir "Safi"  
Approved by Eng. Shah Faisal

SHEET NO. 18/18  
05-May-2024

PROVINCE Kunar  
DISTRICT Sarkano  
VILLAGE Shamir Kot

WISH  
Project