



**NCA**  
**ABADEI**  
**BRIDGE Project**



**Construction and/or Rehabilitation of Agricultural Infrastructures**

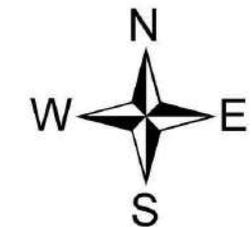
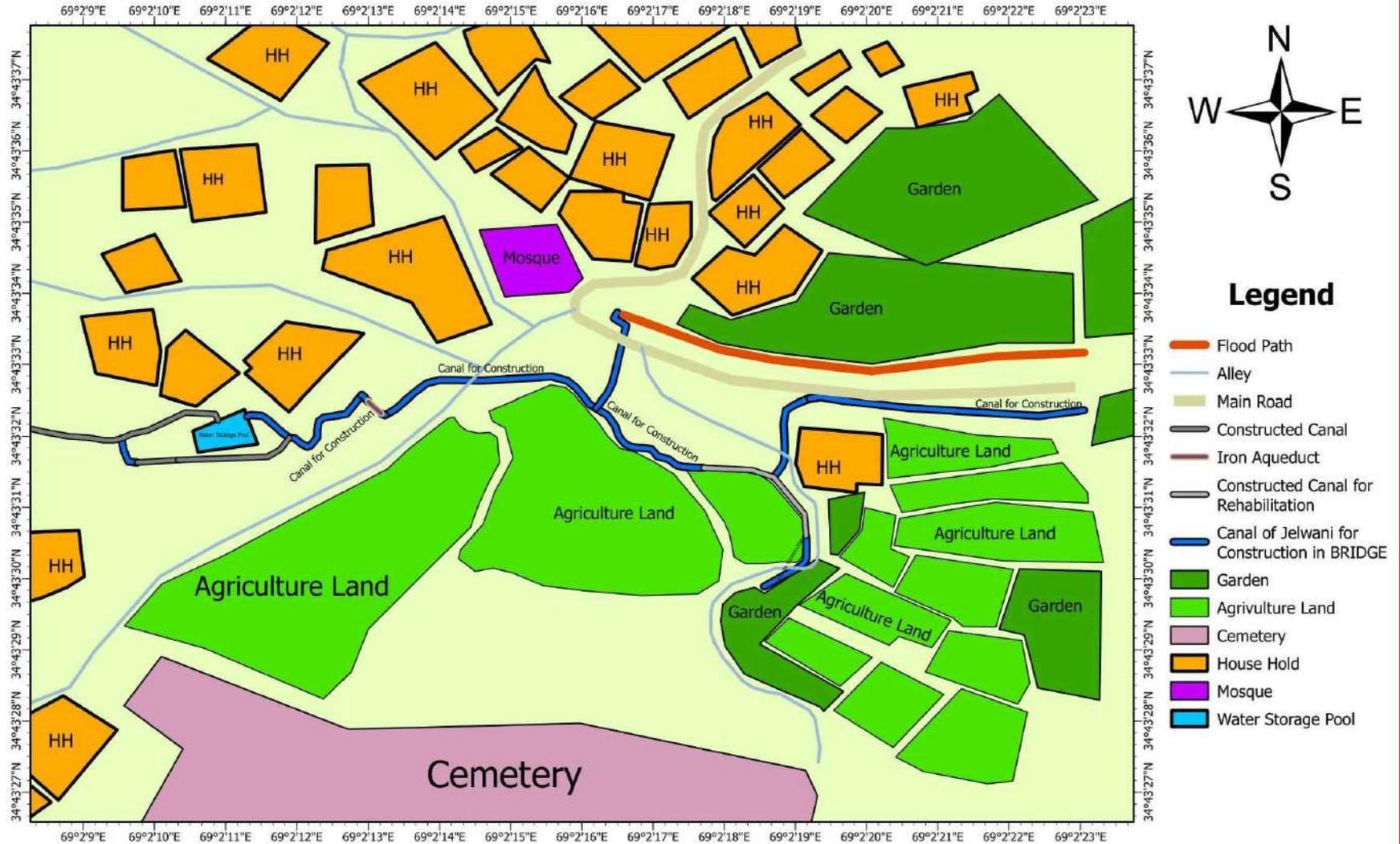
**Guldara, Kabul**

**Jalwani CDC**

# **Drawing of Stone Masonry Canal**

**Feb 2024**

# Jelwani Site Plan

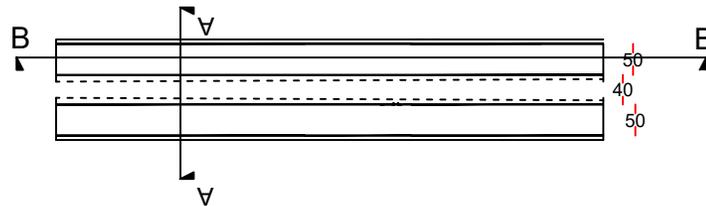
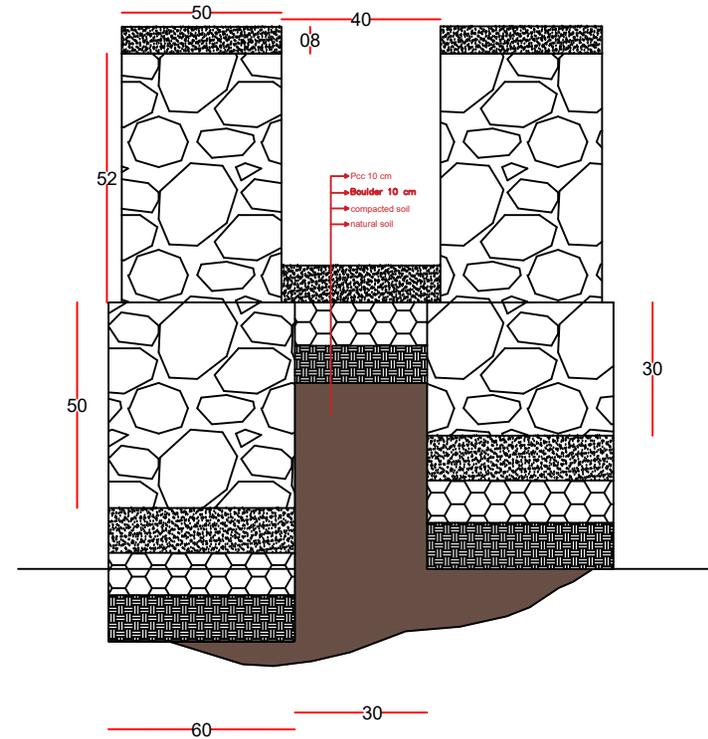
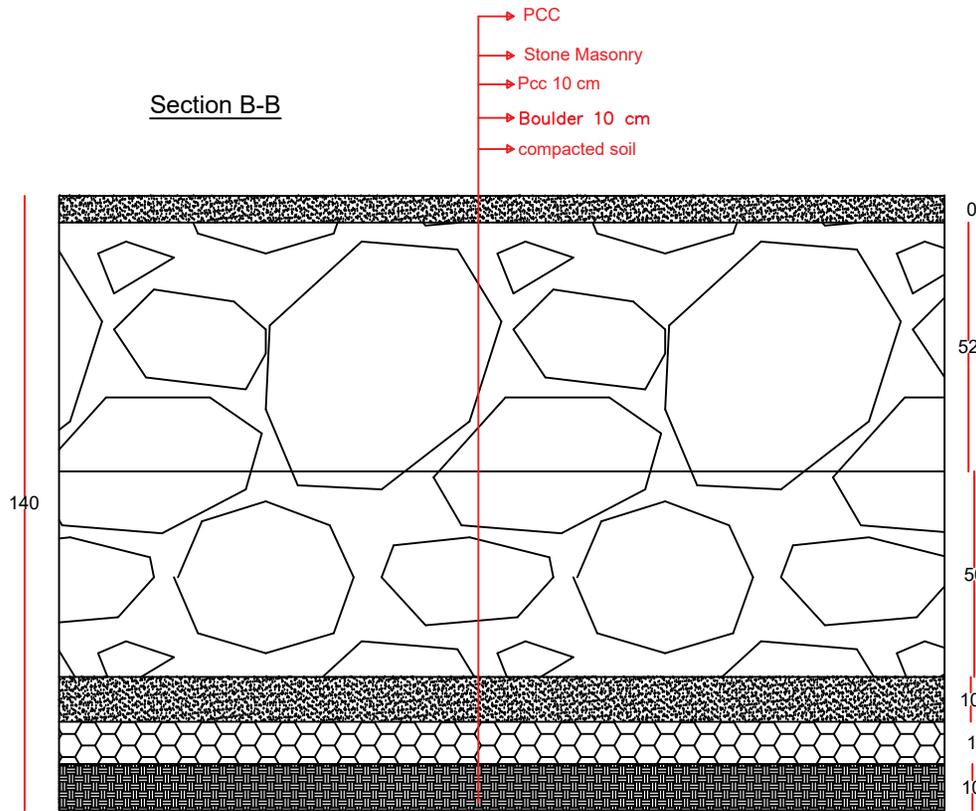


## Legend

- Flood Path
- Alley
- Main Road
- Constructed Canal
- Iron Aqueduct
- Constructed Canal for Rehabilitation
- Canal of Jelwani for Construction in BRIDGE
- Garden
- Agriculture Land
- Cemetery
- House Hold
- Mosque
- Water Storage Pool

	No	Survey by	Hasan Alizai & Zar Mohammad Ahmadzai	NCA Construction of Infrastructure BRIDGE, Kabul, Afghanistan	Province	Kabul	Scale	In dimension(cm)	Project name:	Const of Infrastructure
	1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai		District	Guldara	Sheet No.	Drawing Title:	Site Plan	
	2	Drawn by	Hasan Alizai		Village/CDC	Jelwani		Date	Feb 2024	
			Approved by	UNDP & MRD						

**Section B-B**



The length of this canal is about 210m.  
Depending on the area, there is a possibility of changes  
that must be made in coordination with the NCA engineer.

According to the nature of the soil and field, the length of the canal can be shorter or longer.

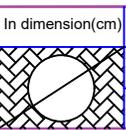


No	Survey by	Hasan Alizai & Zar Mohammad Ahmadzai
1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai
2	Drawn by	Hasan Alizai

NCA  
Construction of Infrastructure  
BRIDGE, Kabul, Afghanistan

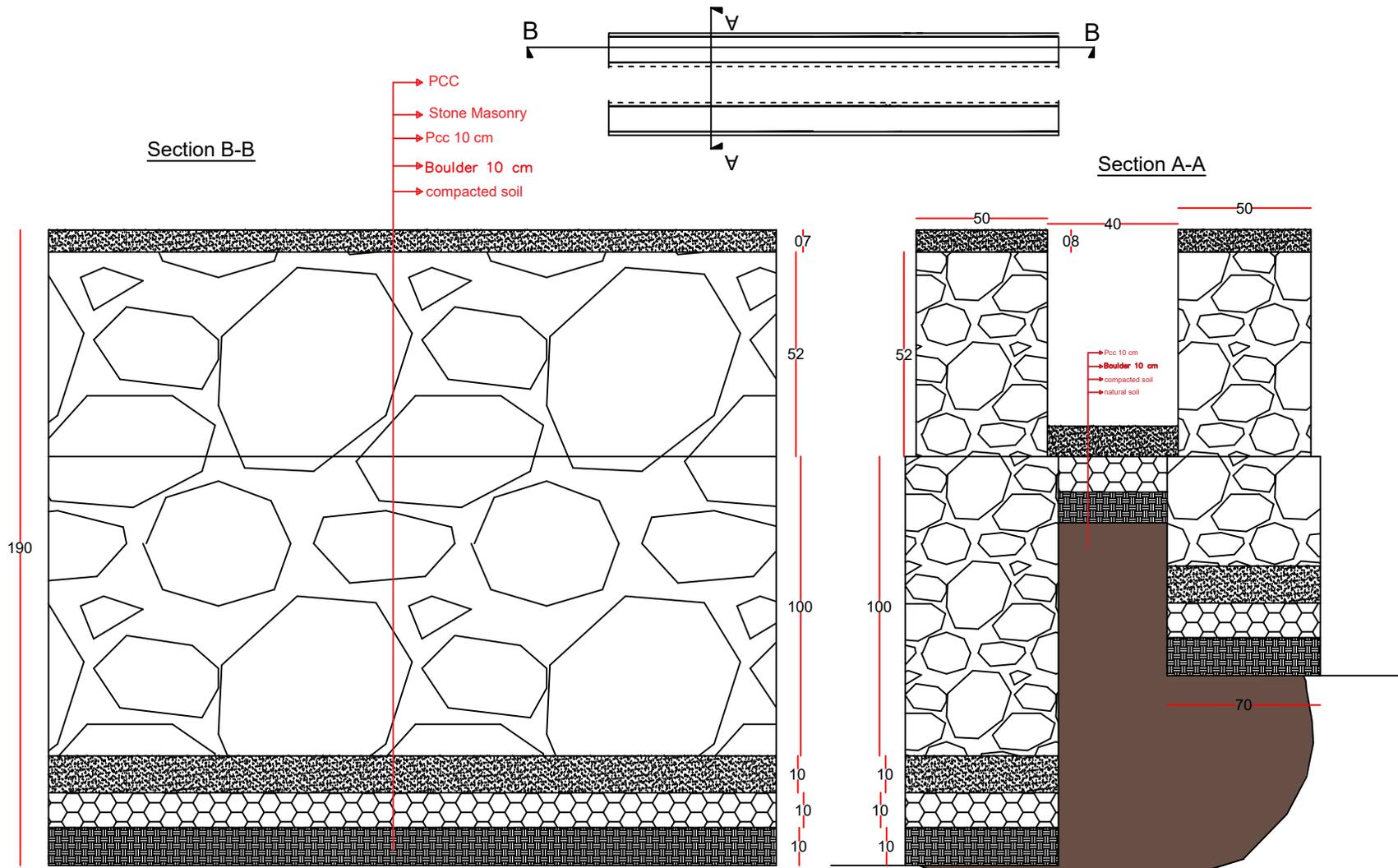
Province	Kabul
District	Guldara
Village/CDC	Jelwani
Approved by	UNDP & MRRD

Scale



In dimension(cm)  
Sheet No.

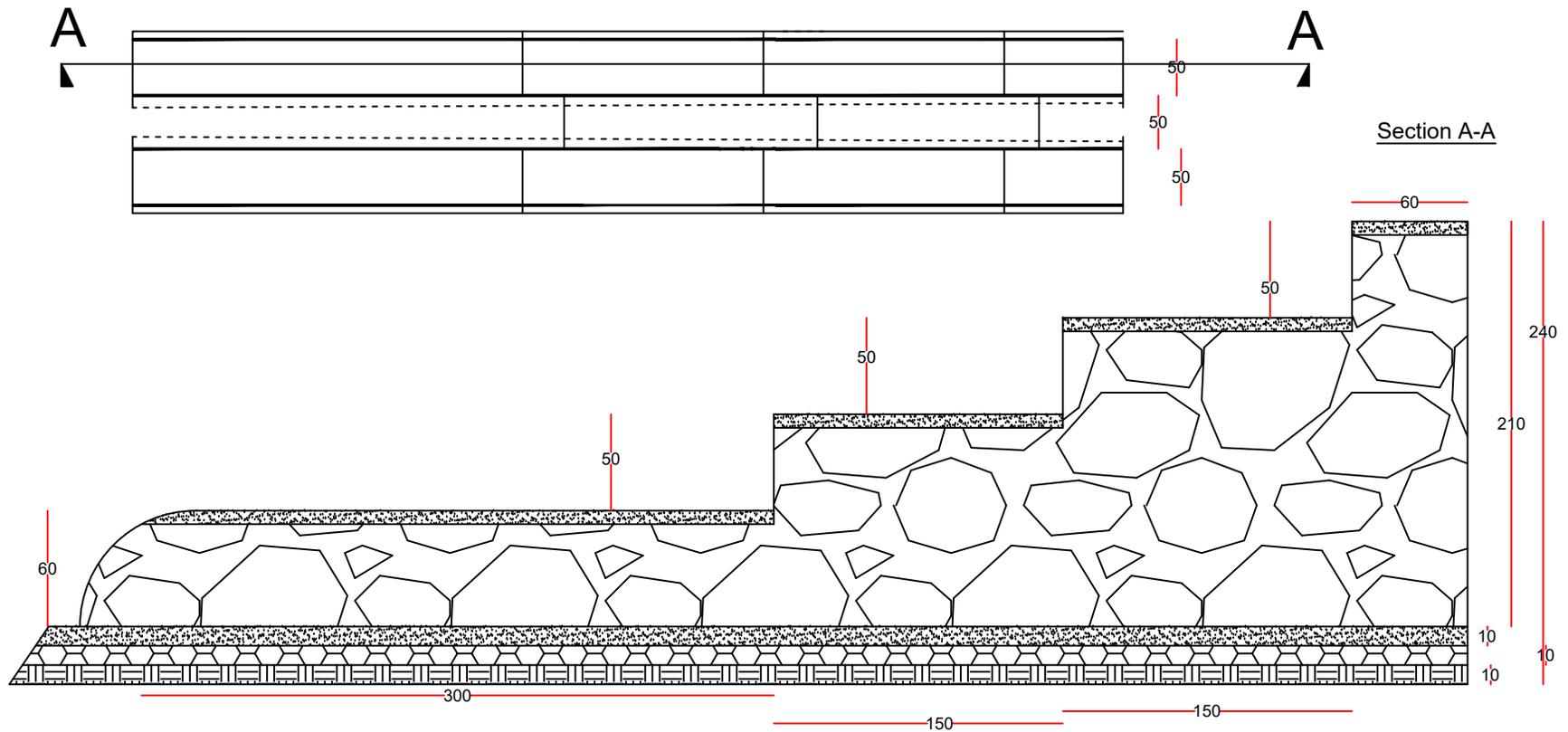
Project name:	Const of Infrastructure
Drawing Title:	Stone Masonry Canal
Date	Feb 2024



The length of this canal is about 36m.  
 Depending on the area, there is a possibility of changes  
 that must be made in coordination with the NCA engineer.  
 According to the nature of the soil and field, the length of the canal can be shorter or longer.

	No	Survey by	Hasan Alizai & Zar Mohammad Ahmadzai	NCA Construction of Infrastructure BRIDGE, Kabul, Afghanistan	Province	Kabul	Scale	In dimension(cm)	Project name:	Const of Infrastructure
	1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai		District	Guldara	Sheet No.		Drawing Title:	Stone Masonry Canal
	2	Drawn by	Hasan Alizai		Village/CDC	Jelwani			Date	Feb 2024
				Approved by	UNDP & MRRD					

There are water dividers, and according to the field and the engineer's observation, there is a possibility of change.



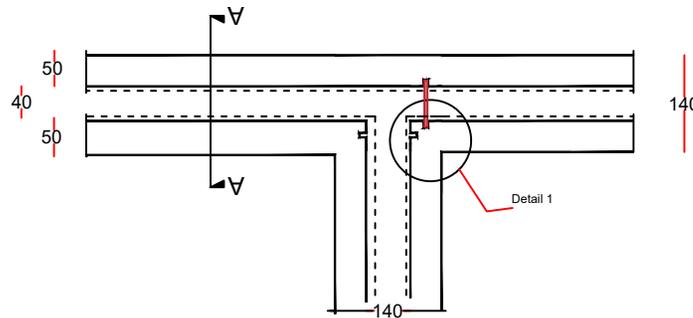
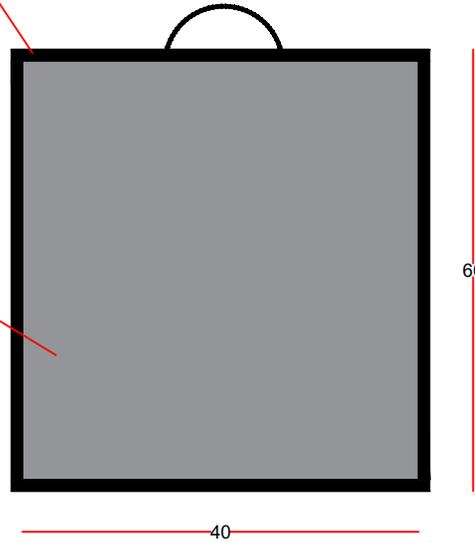
According to the nature of the soil and field, the length of the canal can be shorter or longer.

	No	Survey by	Hasan Alizai & Zar Mohammad Ahmadzai	NCA Construction of Infrastructure BRIDGE, Kabul, Afghanistan	Province	Kabul	Scale		In dimension(cm)	Project name:	Const of Infrastructure
	1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai		District	Guldara	Sheet No.			Drawing Title:	Water Divider
2	Drawn by	Hasan Alizai	Village/CDC	Jelwani	Approved by	UNDP & MRRD		Date		Feb 2024	

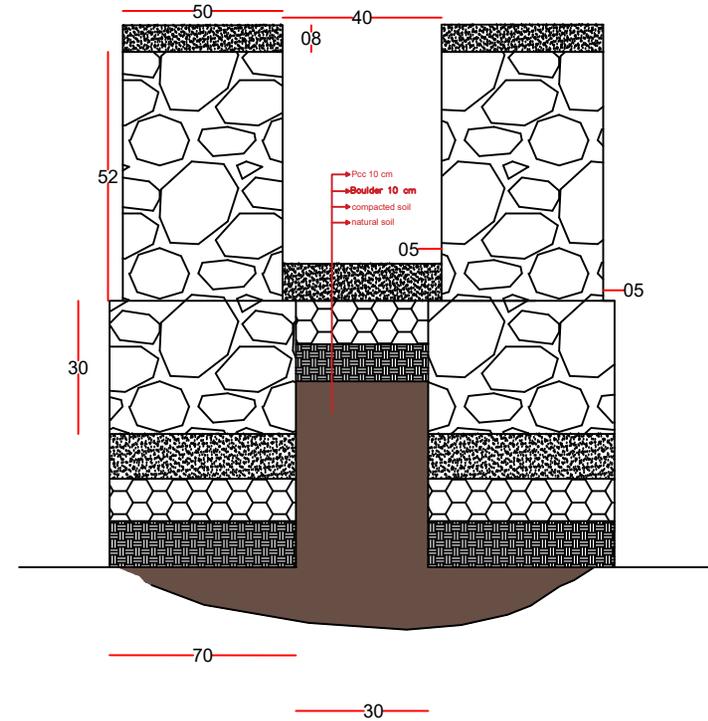
# Water Divider and Control Gate

Angle Iron 2.5 inch

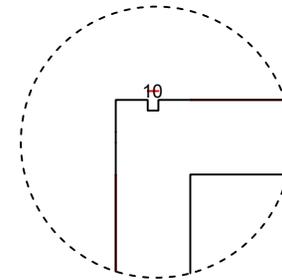
Metallic Sheet 2mm



## Section A-A



## Detail 1



No	Survey by	Hasan Alizai & Zar Mohammad Ahmadzai
1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai
2	Drawn by	Hasan Alizai

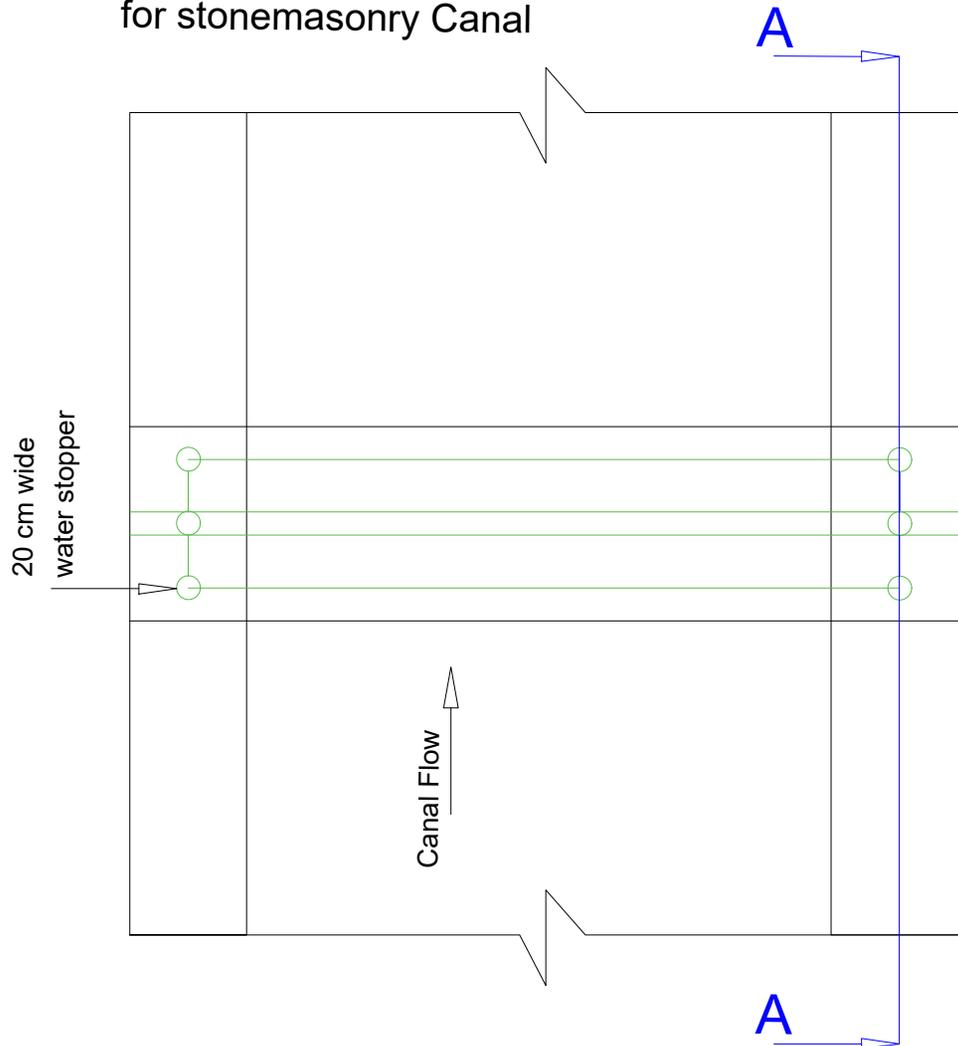
NCA  
Construction of Infrastructure  
BRIDGE, Kabul, Afghanistan

Province	Kabul
District	Guldara
Village/CDC	Jelwani
Approved by	UNDP & MRRD

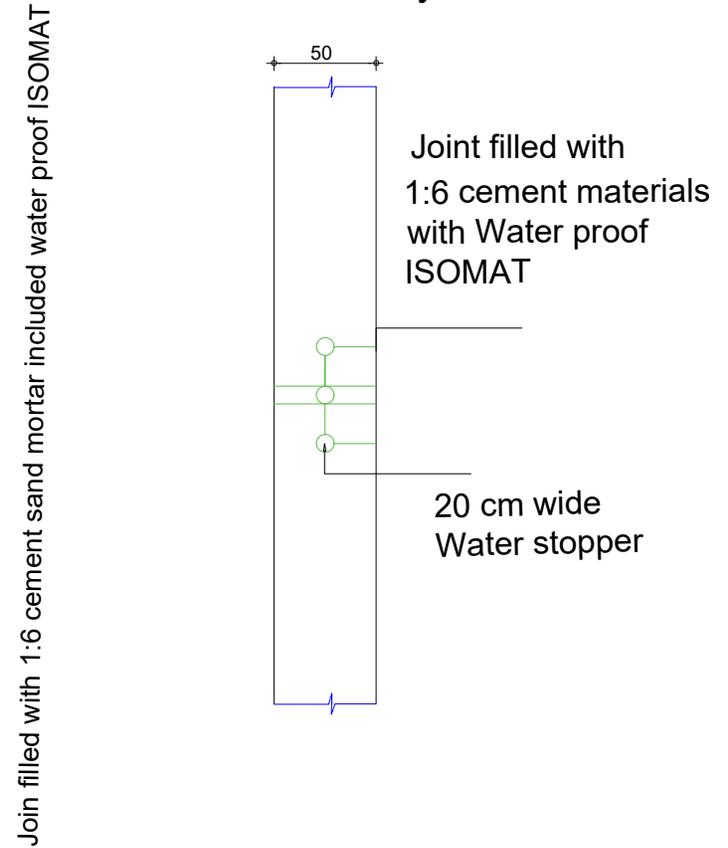
Scale	In dimension(cm)
Sheet No.	

Project name:	Const of Infrastructure
Drawing Title:	Water Divider
Date	Feb 2024

Plan of construction  
joint and Water stopper in sections  
for stonemasonry Canal



Plan of construction  
joint and Water Stopper for one side  
of stone masonry Canal



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1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai
2	Drawn by	Hasan Alizai

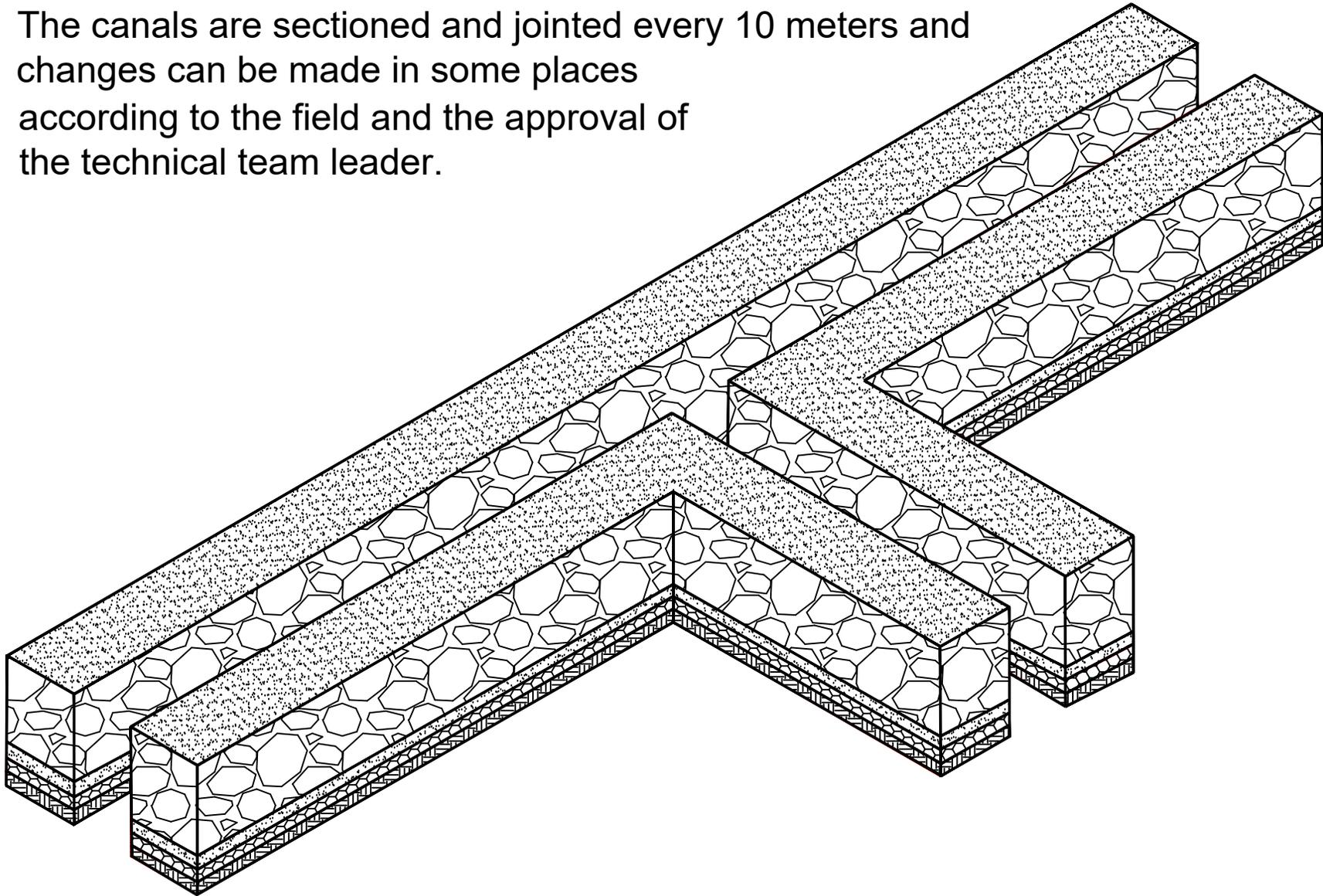
NCA  
Construction of Infrastructure  
BRIDGE, Kabul, Afghanistan

Province	Kabul
District	Guldara
Village/CDC	Jelwani
Approved by	UNDP & MRRD

Scale	In dimension(cm)
Sheet No.	

Project name:	Const of Infrastructure
Drawing Title:	Water Stopper Instalation

The canals are sectioned and jointed every 10 meters and changes can be made in some places according to the field and the approval of the technical team leader.

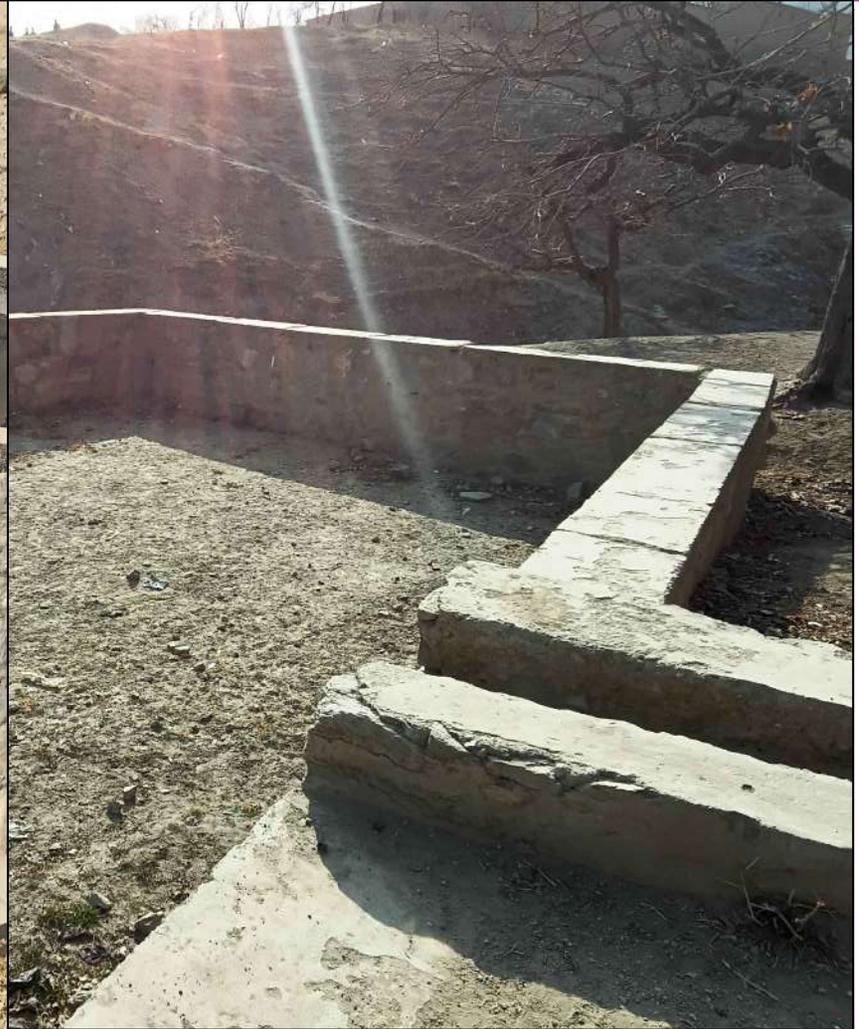


	No	Survey by	Hasan Alizai & Zar Mohammad Ahmadzai	NCA Construction of Infrastructure BRIDGE, Kabul, Afghanistan	Province	Kabul	Scale		In dimension(cm)	Project name:	Const of Infrastructure
	1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai		District	Guldara	Sheet No.		Drawing Title:	3D Model	
	2	Drawn by	Hasan Alizai		Village/CDC	Jelwani			Date	Feb 2024	
		Approved by	UNDP & MRRD								



The canal that can be constructed by NCA is along the previously constructed canal that was constructed by CCNPP. According to the section of the new canal, it is considered in the design according to the previous canal. and the Data was collected from field and community by collection tools.

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	2	Drawn by	Hasan Alizai		Village/CDC	Jelwani		Date	Feb 2024	
				Approved by	UNDP & MRRD					



Surface water reservoir and  
Check Dam for rehabilitation.

	No	Survey by	Hasan Alizai & Zar Mohammad Ahmadzai	NCA Construction of Infrastructure BRIDGE, Kabul, Afghanistan	Province	Kabul	Scale	In dimension(cm)	Project name:	Const of Infrastructure
	1	Design by	Hasan Alizai & Zar Mohammad Ahmadzai		District	Guldara	Sheet No. 	Drawing Title:		
	2	Drawn by	Hasan Alizai		Village/CDC	Jelwani		Date	Feb 2024	
		Approved by	UNDP & MRRD							