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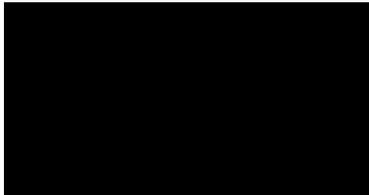
<b>Site Visit Report</b>	Project: <b>Bus Terminal Construction</b>
Location: <b>Sheberghan, Jawzjan Province</b>	Coordinates: Latitude: <b>N 36°40'0.21"</b> Longitude: <b>E 65°46'15.47"</b>
Inspection Date: <b>December 31, 2013</b>	Weather: <b>Partly Cloudy, Temp @ 15°C, No Precipitation</b>
Inspectors: 	Status: <b>Incomplete</b>

**PRESENTED TO**

**United States Agency for International Development (USAID)  
Office of Economic Growth and Infrastructure (OEGI)**

**RampUP North**

Great Massoud Road  
Kabul, Afghanistan



Title: **Deputy Chief of Party**

Date: **02/17/14**

**PRESENTED BY**

**Tetra Tech, Inc.  
Afghanistan Engineering Support Program  
Contract No. EDH-I-00-08-00027-00  
Task Order No. 1**

**Work Order WO-LT-0009 AMD #5**

Shash Darak  
Kabul, Afghanistan

**EXECUTIVE SUMMARY**

The Sheberghan bus terminal is located in Jawzjan province. This project includes one (1) bus station, one (1) latrine, one (1) waiting hall, one (1) septic tank, one (1) restaurant, six (6) shops, sidewalks, stone masonry boundary wall and a 4,000 square meter parking lot. Site preparation that includes cutting and filling, Construction of boundary wall, bus station, waiting hall, sidewalks, reinforced cement concrete (RCC) drainage, four-cabin latrine and construction of semi deep water well are funded by USAID/RC-North where construction of six (6) shops, one (1) restaurant, lighting system over boundary wall and a sidewalk with 212 square meter area are funded by Sheberghan Municipality.

On October 31, 2013 two civil engineers from Tetra Tech's (Tt) Afghanistan Engineering Support Program (AESP) reviewed the project documentation for the Sheberghan Bus Terminal Construction and traveled to Jawzjan province to evaluate the visible completed works. Tt has determined USAID's portion of the construction work for the Sheberghan bus terminal is incomplete. Tt also determined Sheberghan Municipality's portion of the construction work for the bus terminal is in progress but incomplete. The contractor's remaining work consists of construction of plain concrete cement (PCC) sidewalk with attached drainage and construction of restaurant and shops inside bus terminal.

**DISCLAIMER**

The author's views expressed in this publication do not necessarily reflect the views of the United States Agency for International Development or the United States Government.

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APPENDIX A – SHEBERGHAN BUS TERMINAL CONSTRUCTION PLANS

APPENDIX B – SHEBERGHAN BUS TERMINAL CONSTRUCTION SCOPE OF WORK

**This report was prepared for the United States Agency for International Development, Contract No. EDH-I-00-08-00027-00, Task Order 01, Afghanistan Engineering Support Program.**

## 1.0 INTRODUCTION

Sheberghan Municipality has a population of around 74,800 and is located in northern Afghanistan on the highway between Balkh, Faryab and Sar-e-Pul provinces. Sheberghan Municipality did not have a bus terminal, and travelers had to stand in open areas during both winter and summer for hours without access to any facility such as public latrines or seating areas. The Sheberghan Municipality did not have a parking lot for buses to park which was causing traffic jams and road accidents.

The bus terminal is located in Jawzjan province, Sheberghan district. This project includes one (1) bus station, one (1) latrine, one (1) waiting hall, one (1) septic tank, one (1) restaurant, six (6) shops, sidewalks, stone masonry boundary wall and a 4,000 square meter parking lot. Site preparation includes cutting and filling; construction of boundary wall, bus station, waiting hall, sidewalks, RCC drainage, four-cabin latrine and construction of semi deep water well are funded by USAID/RC-North. The construction of six (6) shops, one (1) restaurant, lighting system, boundary wall and sidewalk with 212 square meter area are funded by Sheberghan Municipality.

The direct beneficiaries are the population of Sheberghan district; this includes 560 passengers that travel daily to and from neighboring provinces and districts. Indirect beneficiaries are people from other districts and provinces who would use the bus terminal.

## 2.0 SITE VISIT

Two Tt civil engineers from AESP reviewed the project documentation for the Sheberghan Bus Terminal Construction and traveled to Jawzjan province on October 31, 2013 to evaluate the visible completed works. The provided project documentation included plans (Appendix A) and scope of work within bill of quantities (BoQ) on (Appendix B). Tt engineers were accompanied by DAI site engineer, Ghulam Shakhi, during site evaluation. Findings of this site observation are documented in this report, including photos found in the Figures section, pages 4 through 15.

## 3.0 SITE VISIT DETAILS: USAID RESPONSIBILITY

Regarding the USAID funded portion of works, the following was observed:

1. Stone masonry boundary wall with fence on top of the wall are complete per the drawings. (See Figures 1 and 2)
2. Both western and southern side main entrance gates are fabricated and installed per the drawings. (See Figures 3 and 4)
3. Plain Concrete Cement (PCC) sidewalk with attached drainage on western side of bus terminal is complete per drawings. (See Figure 5)
4. Construction of bus station with 420 square meter area is complete per the drawings. (See Figures 7 and 8)
5. Construction of waiting hall (153 square meters area) with installation of benches was completed per the drawings. (See Figures 9, 10, 11 and 12)
6. Construction of latrine with electrical system is complete. (See Figures 13, 14, 15, 16, 17, 18 and 19)
7. Construction of septic tank is complete per the drawings. (See Figure 20)
8. Construction of the water tap is complete per the drawings. (See Figure 21)
9. Installation of submersible water pump which is covered by iron sheet is complete per the drawings. (See Figure 22)
10. Placement of crushed aggregate on bus terminal area is complete. Per DAI engineer, the crushed aggregate placed in 20 centimeter thick compacted base course and 30 centimeter thick filling material (embankment). (See Figures 9 and 10)
11. Construction of 60 x 60 centimeter culvert is complete per the drawings. (See Figure 24)
12. The drawings indicate guard room to be constructed, during the inspection it was found that no guard room had been constructed.
  - a. **Remaining work:** USAID is required to complete construction of the guard room per plans.

Based on above summary, Tt has determined USAID's portion of the construction work for the Sheberghan bus terminal is incomplete. The USAID remaining work consists of construction of the guard room.

#### 4.0 SITE VISIT DETAILS: SHEBERGHAN MUNICIPALITY RESPONSIBILITY

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Regarding the Sheberghan Municipality funded portion of works, the following was observed:

1. Construction of Plain Concrete Cement (PCC) sidewalk with attached drainage is incomplete. (See Figure 6)
  - a. **Remaining work:** The Sheberghan Municipality is required to construct the PCC sidewalk in front of the shops.
2. Construction work of restaurant and shops is in progress. (See Figure 23)

Based on the above summary, Tt has determined Sheberghan Municipality's portion of the construction work for the bus terminal is in progress but incomplete. The contractor remaining work consists of construction of PCC sidewalk with attached drainage and construction of restaurant and shops inside bus terminal.

**FIGURES**



**Figure 1.** Stone Masonry Boundary Wall with Fence on top of the Wall



**Figure 2.** Stone Masonry Boundary Wall with Fence on Top of the Wall

**FIGURES (CONTINUED)**



**Figure 3.** Main Entrance Gate, West Side



**Figure 4.** Main Entrance Gate, South Side

**FIGURES (CONTINUED)**



**Figure 5.** Sidewalk with Attached Drainage on the Western Side of Bus Terminal



**Figure 6.** View of the Drainage Attached to the Sidewalk.

**FIGURES (CONTINUED)**



**Figure 7.** Bus Station



**Figure 8.** Interior View of Bus Station

**FIGURES (CONTINUED)**



**Figure 9.** Completed Waiting Hall and Benches



**Figure 10.** Front View of the Waiting Hall

**FIGURES (CONTINUED)**



**Figure 11.** Interior View of Waiting Hall



**Figure 12.** Installed Benches for Passengers in the Waiting Hall

**FIGURES (CONTINUED)**



**Figure 13.** External View of Latrine Building



**Figure 14.** External View of Latrine Building

**FIGURES (CONTINUED)**



**Figure 15.** Stair View of Latrine Building



**Figure 16.** Windows with Exhaust Fans for Latrine

**FIGURES (CONTINUED)**



**Figure 17.** Door and Window for Latrine



**Figure 18.** Internal View of the Latrine with the Electrical Accessories

**FIGURES (CONTINUED)**



**Figure 19.** Lighting Control Switch for Latrine



**Figure 20.** Completed Septic Tank next to the Latrine

**FIGURES (CONTINUED)**



**Figure 21.** Constructed Water Tap



**Figure 22.** Installed Submersible Water Pump

**FIGURES (CONTINUED)**



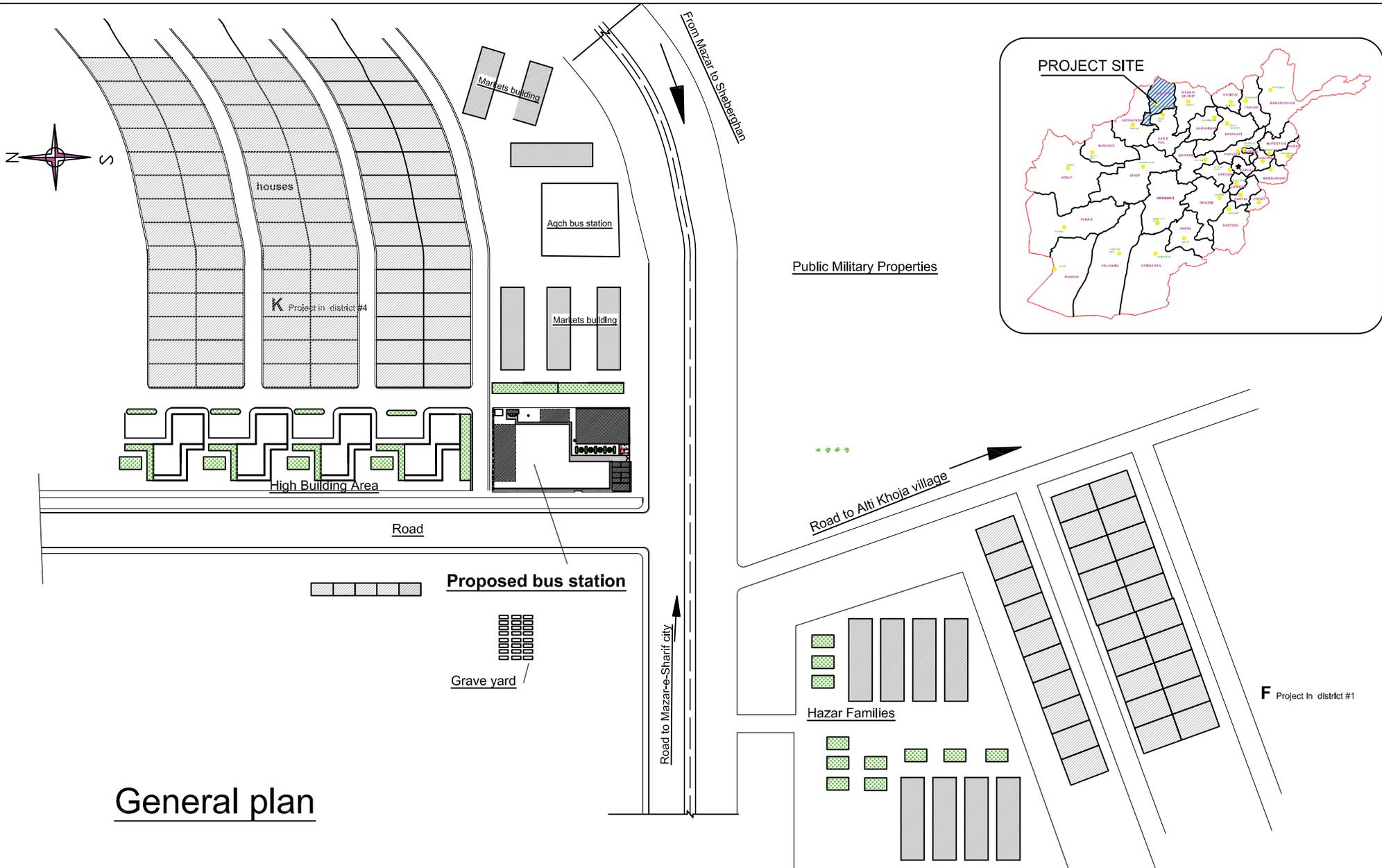
**Figure 23.** Construction of Restaurant and Shops



**Figure 24.** Constructed Slab Box Culvert in Front of the Western Main Gate of the Bus Terminal

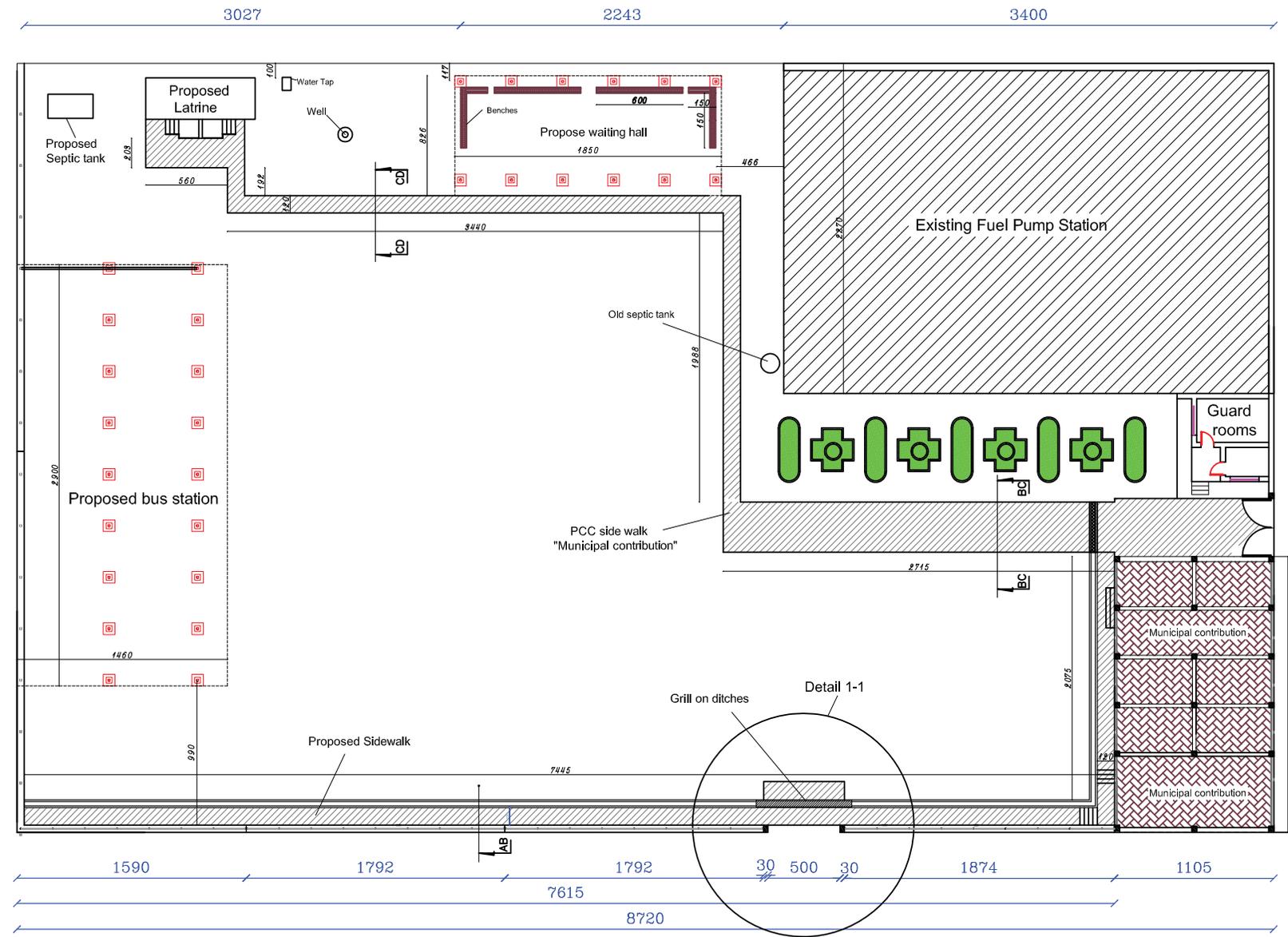
## APPENDIX A – SHEBERGHAN BUS TERMINAL CONSTRUCTION PLANS

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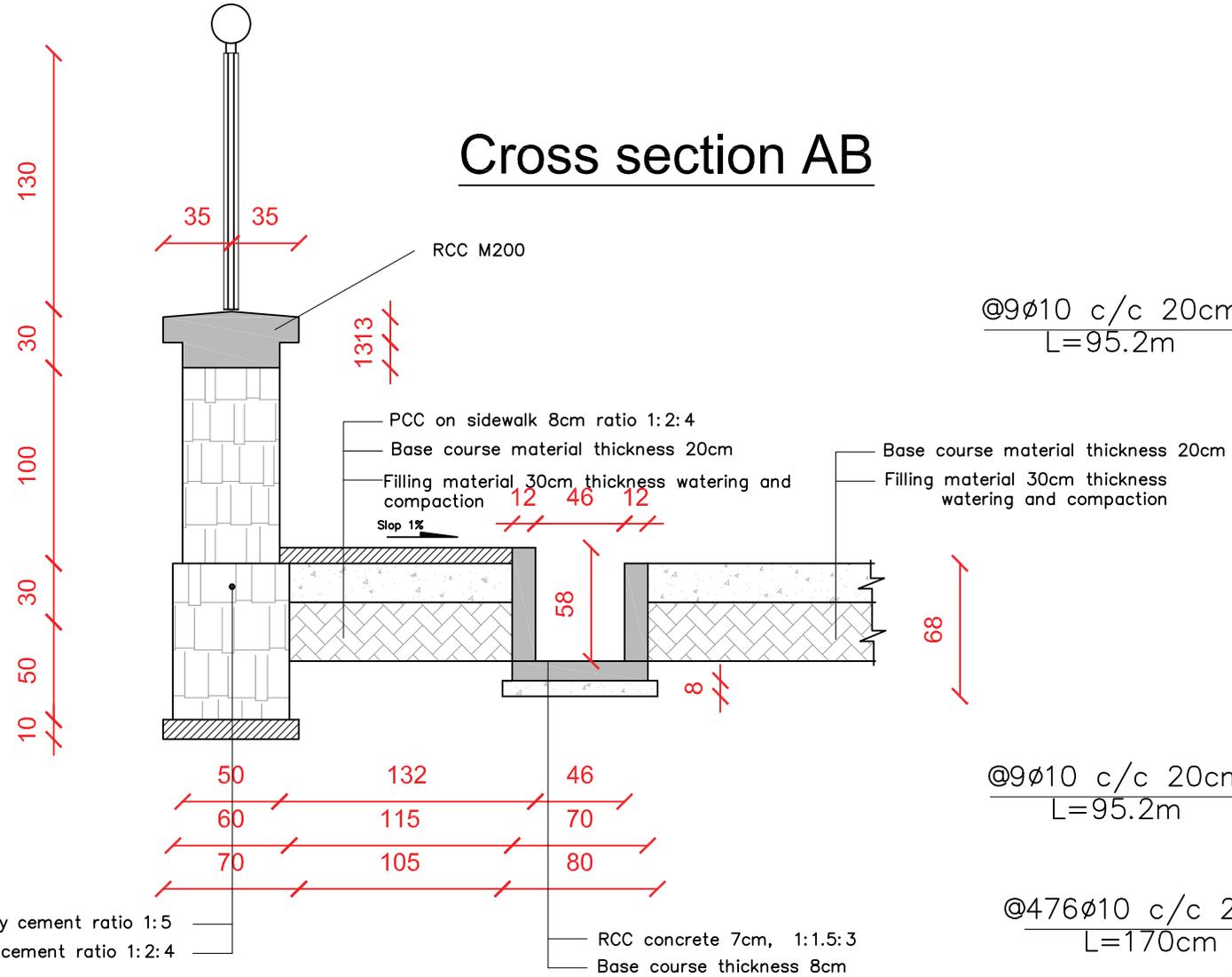
# General plan

Drawing Title: Bus terminal General Plan	Surveyed by:	[REDACTED]	Name	Position/Organization	Project Name: Construction of bus terminal  Date:
	Estimated by:			Project Engineer RAMP-UP N	
Conceptual Approved by:			Project Engineer RAMP-UP N		
Conceptual Approved by:			Deputy SDAG		
Technical Checked by:			Mayor of Sheberghan		
Drawing Number:  1/21				Engineering Director RAMP-UP N	

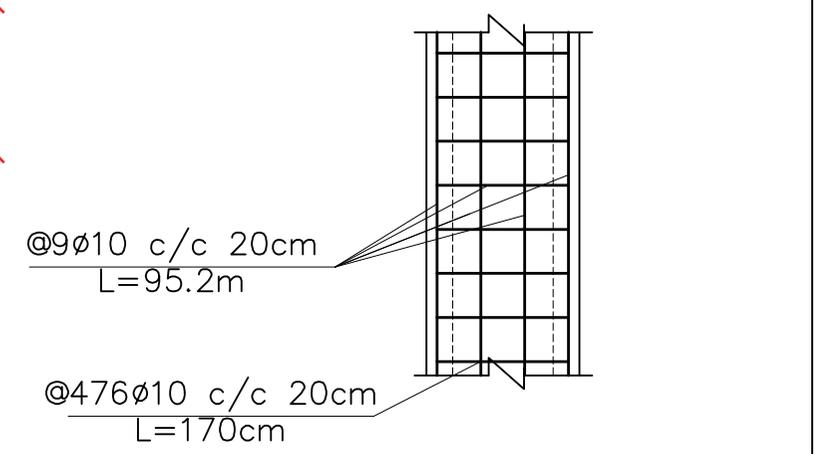
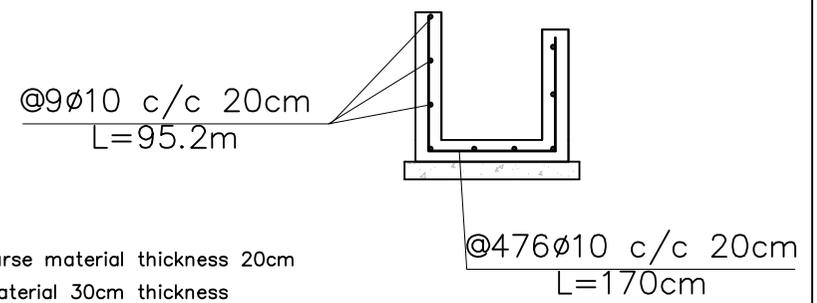


Drawing Title:	Name		Position/Organization	Project Name: Construction of bus terminal
Bus terminal General Plan	Surveyed by:	[REDACTED]	Project Engineer RAMP-UP N	
	Estimated by:		Project Engineer RAMP-UP N	
Drawing Number:	Conceptual Approved by:		Deputy SDAG	
2/21	Conceptual Approved by:		Mayor of Sheberghan	
	Technical Checked by:		Engineering Director RAMP-UP N	
				Date:

# Cross section AB



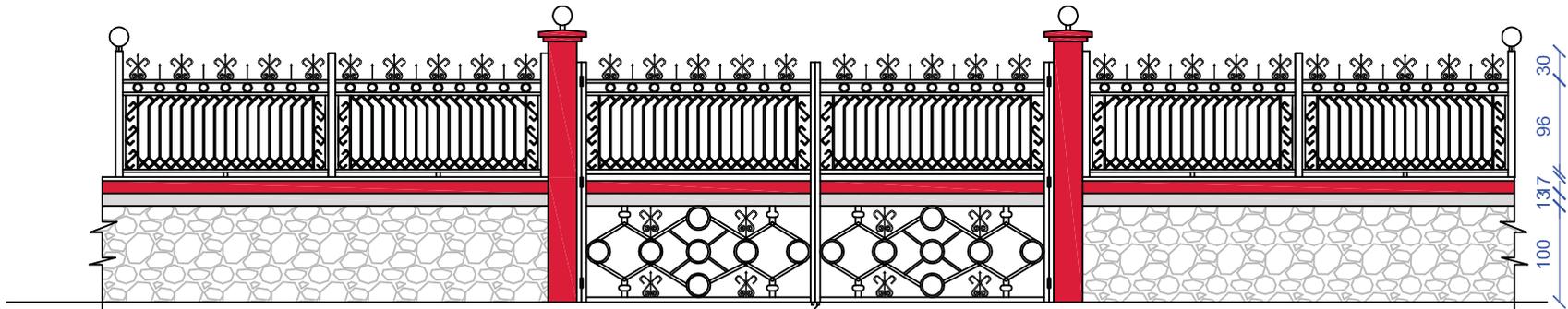
## Steel bending detail



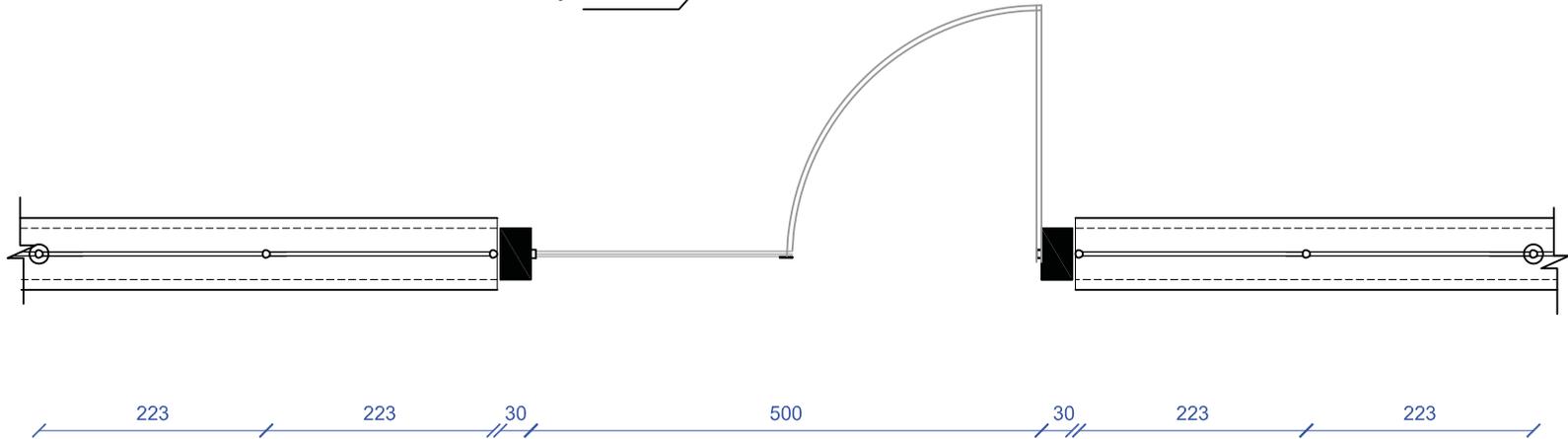
## Steel bending plan for drainage

Drawing Title: Details AB	Surveyed by:	[REDACTED]	Position/Organization	Project Name: Construction of bus terminal
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	Conceptual Approved by:		Deputy SDAG	
Conceptual Approved by:	Mayor of Sheberghan			
Technical Checked by:	Engineering Director RAMP-UP N			
Drawing Number: 3/21	Approved by:		Project Manager RAMP-UP N	Date: November 2012

# Detail 1-1



Metal ball bearing dia 45-60mm



Surrounding wall detail and view

Drawing Title: Surrounding wall plan with details	Surveyed by:	Name	Position/Organization Project Engineer RAMP-UP N	Project Name: Construction of bus terminal
	Estimated by:		Project Engineer RAMP-UP N	
	Conceptual Approved by:		Deputy SDAG	
	Conceptual Approved by:		Mayor of Sheberghan	
Drawing Number: 4/21	Technical Checked by:		Engineering Director RAMP-UP N	Date: November 2012
	Approved by:		Project Manager RAMP-UP N	

lamp with round cover complete 40watt

GIP 7.5cm  $\phi$   
L=160cm

Profile 3X3cm

Profile 1.5X1.5cm

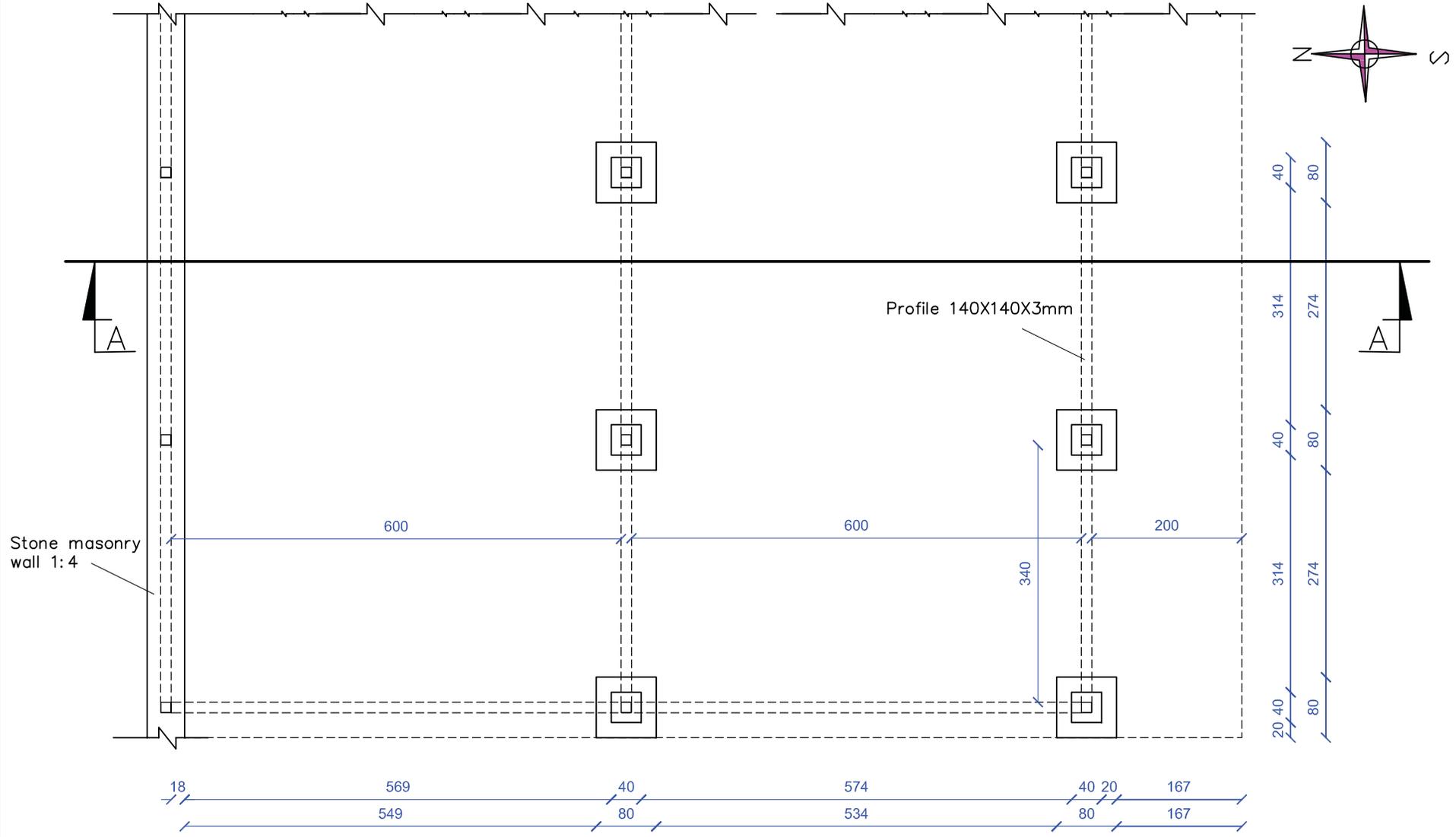
steel wire 12mm

steel wire 10mm

steel wire 10mm

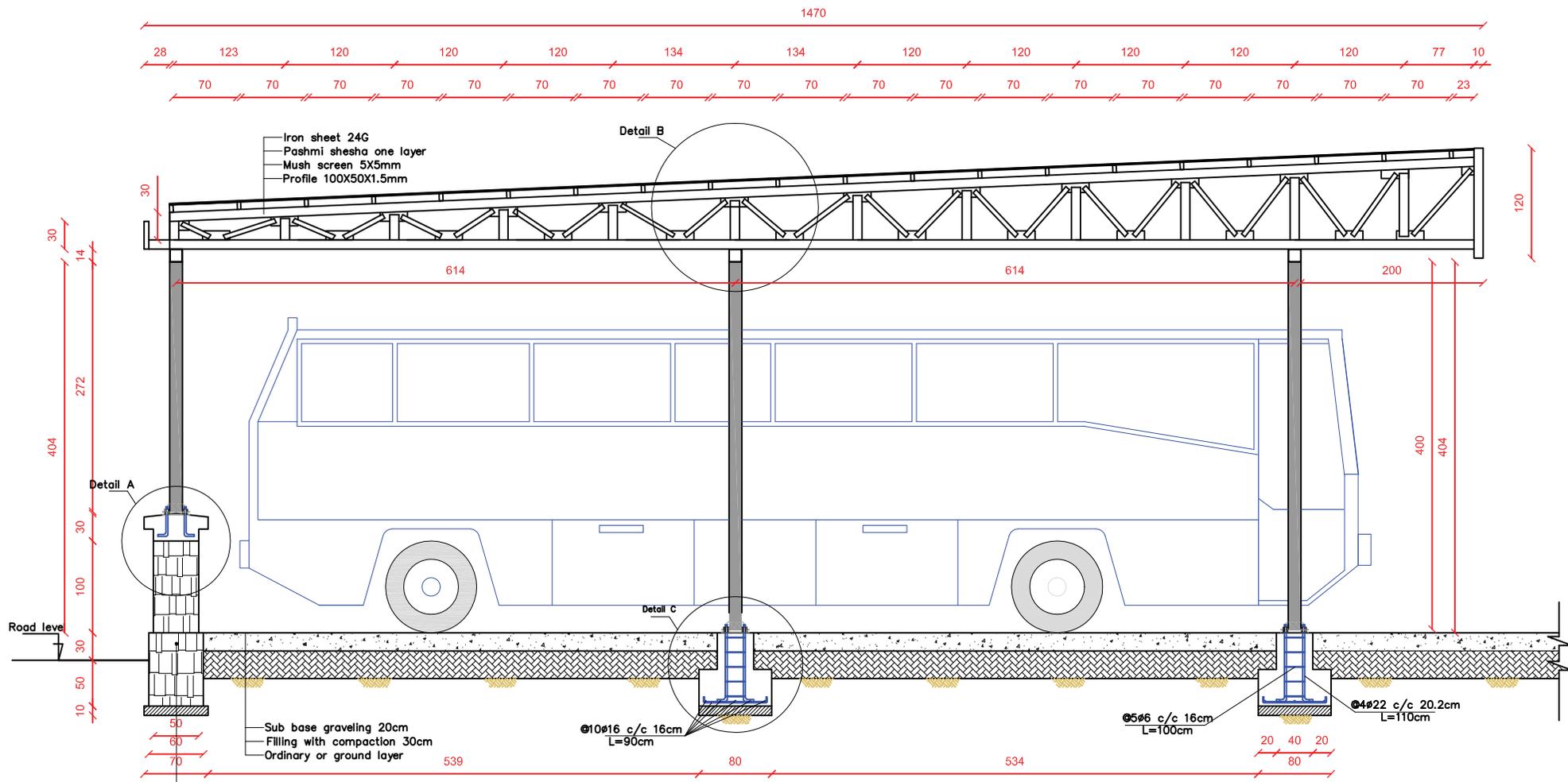
Fence on surrounding wall

Drawing Title:		Name		Position/Organization		Project Name:	
Fence details		Surveyed by:	[REDACTED]	Project Engineer RAMP-UP N	Construction of bus terminal		Date: November 2012
		Estimated by:		Project Engineer RAMP-UP N			
		Conceptual Approved by:		Deputy SDAG			
		Conceptual Approved by:		Mayor of Sheberghan			
Drawing Number: 5/21		Technical Checked by:	Engineering Director RAMP-UP N				
		Approved by:	Project Manager RAMP-UP N				



Part of Garage Plan

Drawing Title: A Part of Garage plan	Name		Position/Organization	Project Name: Construction of bus terminal
	Surveyed by:	[Redacted]	Project Engineer RAMP-UP N	
Drawing Number: 6/21	Estimated by:	[Redacted]	Project Engineer RAMP-UP N	Date: November 2012
	Conceptual Approved by:	[Redacted]	Deputy SDAG	
	Conceptual Approved by:	[Redacted]	Mayor of Sheberghan	
	Technical Checked by:	[Redacted]	Engineering Director RAMP-UP N	
	Approved by:	[Redacted]	Project Manager RAMP-UP N	



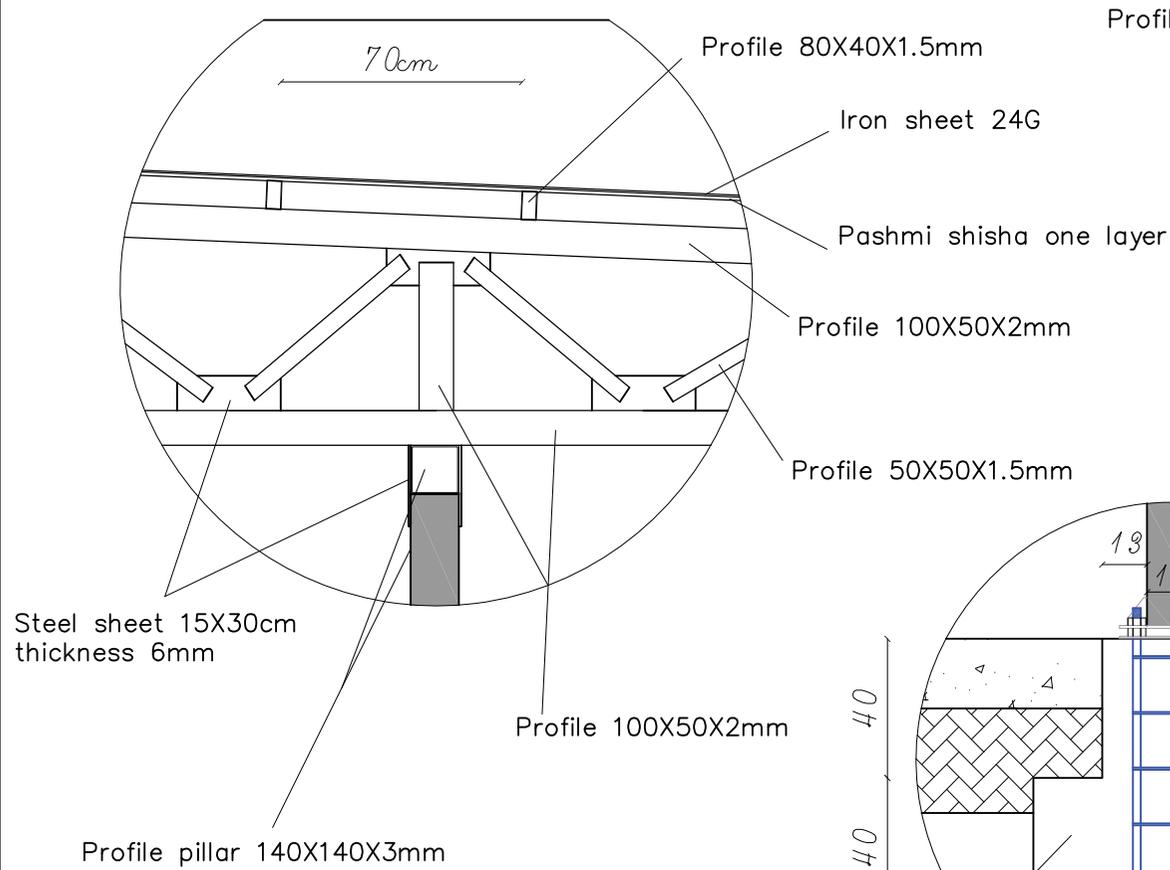
Stone masonry cement ratio 1:5  
PCC work cement ratio 1:2:4

## Cross section A-A

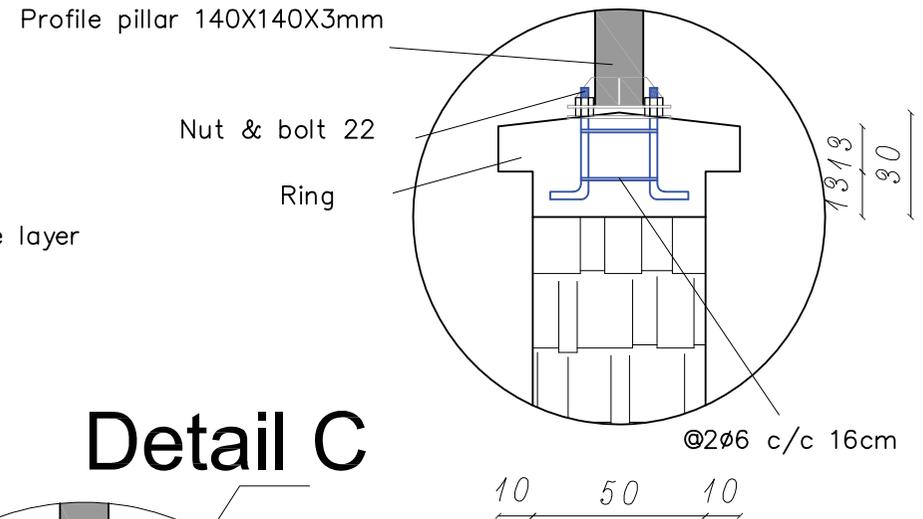
Drawing Title: Cross section A-A	Surveyed by:	[Redacted]	Position/Organization	Project Name: Construction of bus terminal
	Estimated by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Project Engineer RAMP-UP N			
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 7/21	Approved by:	Engineering Director RAMP-UP N	Date:	November 2012
		Project Manager RAMP-UP N		



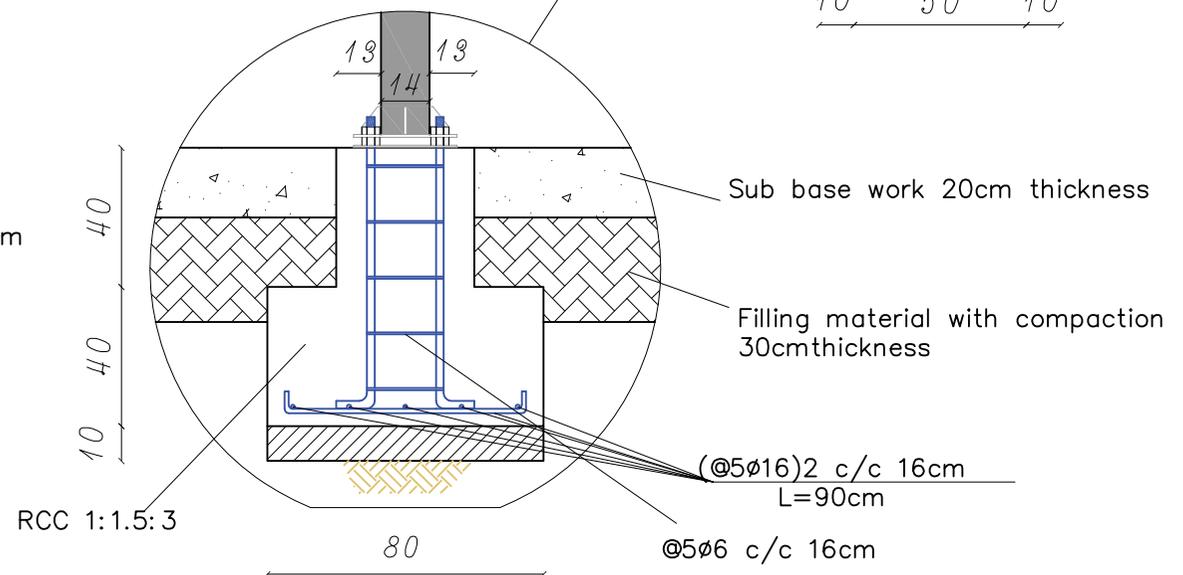
# Detail B



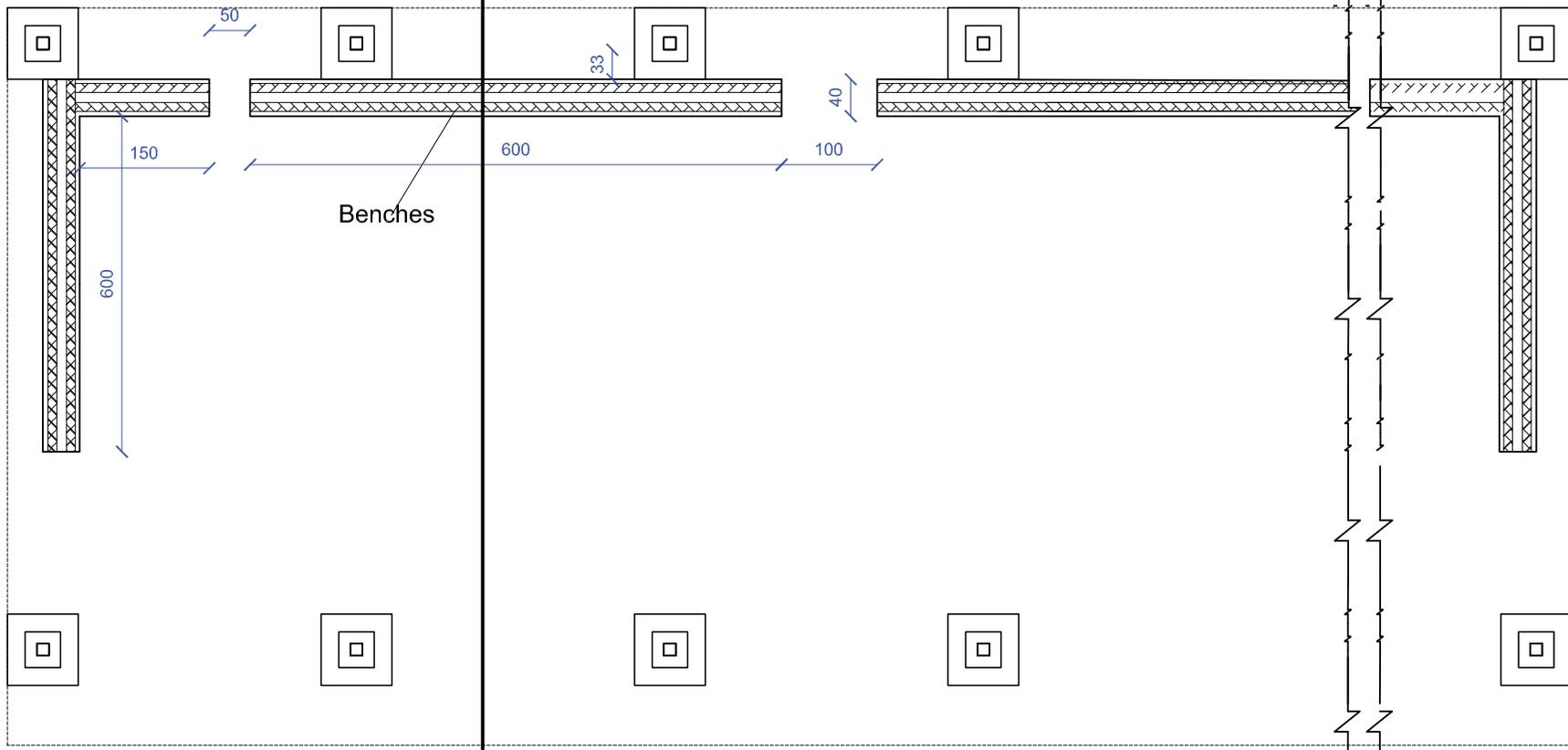
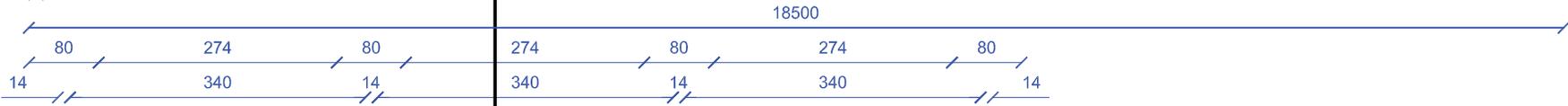
# Detail A



# Detail C



Drawing Title: Details A, B and C	Surveyed by:	Name [REDACTED]	Position/Organization	Project Name: Construction of bus terminal
	Estimated by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Project Engineer RAMP-UP N			
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 9/21	Approved by:		Engineering Director RAMP-UP N	Date: November 2012
			Project Manager RAMP-UP N	

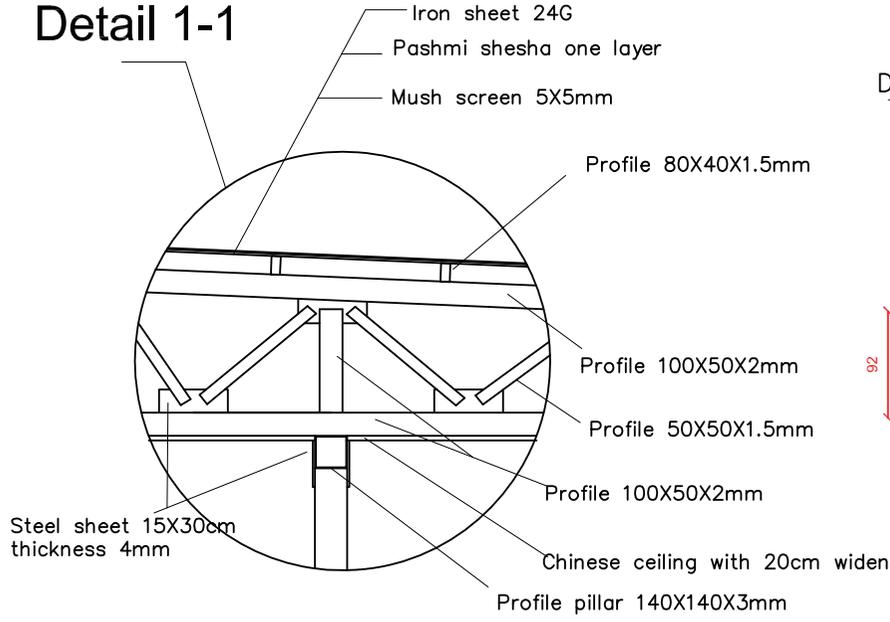


Benches

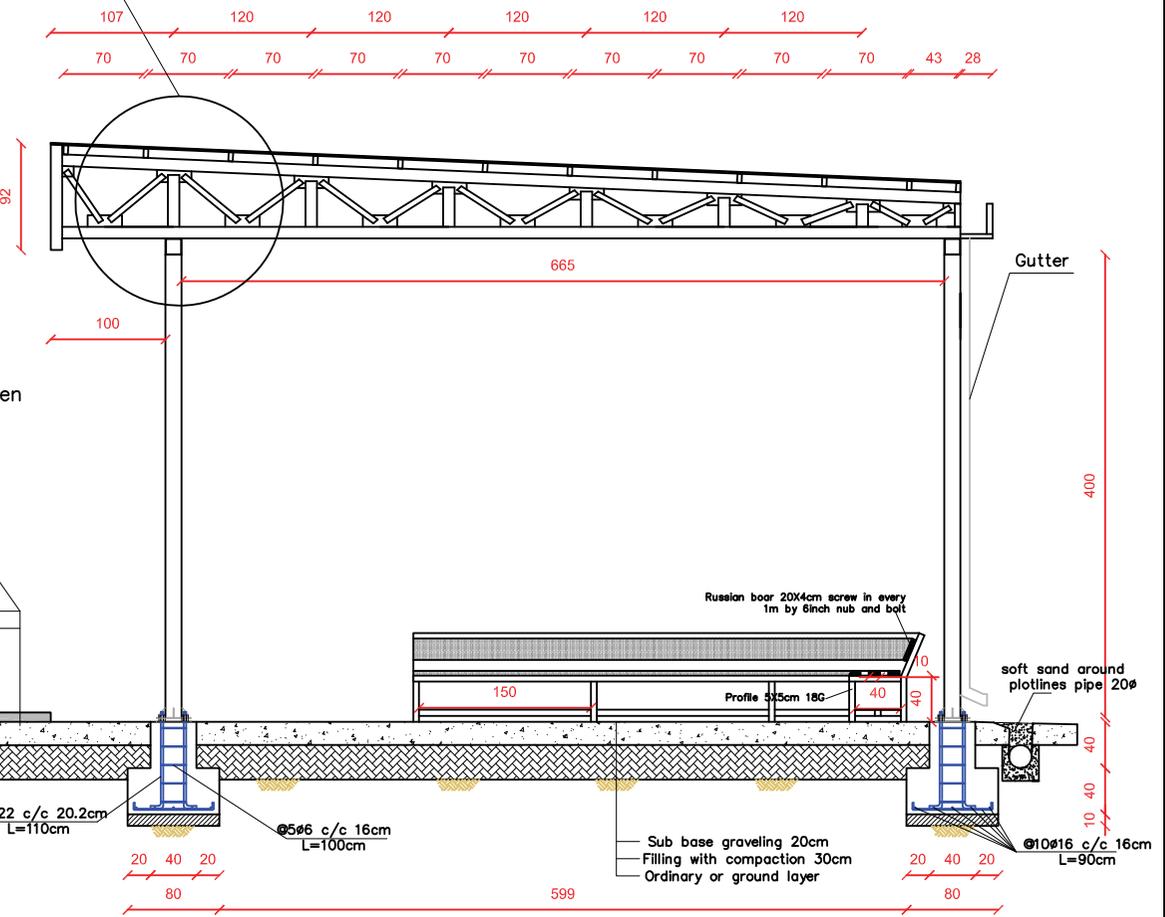
Waiting hall Plan

Drawing Title: Waiting hall plan	Surveyed by: Estimated by: Conceptual Approved by:	Name	Position/Organization	Project Name:
				Construction of bus terminal
Drawing Number: 10/21	Conceptual Approved by:	[Redacted]	Deputy SDAG	Date: November 2012
	Technical Checked by:		Mayor of Sheberghan	
	Approved by:		Engineering Director RAMP-UP N	
			Project Manager RAMP-UP N	

# Detail 1-1

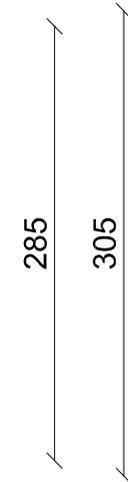
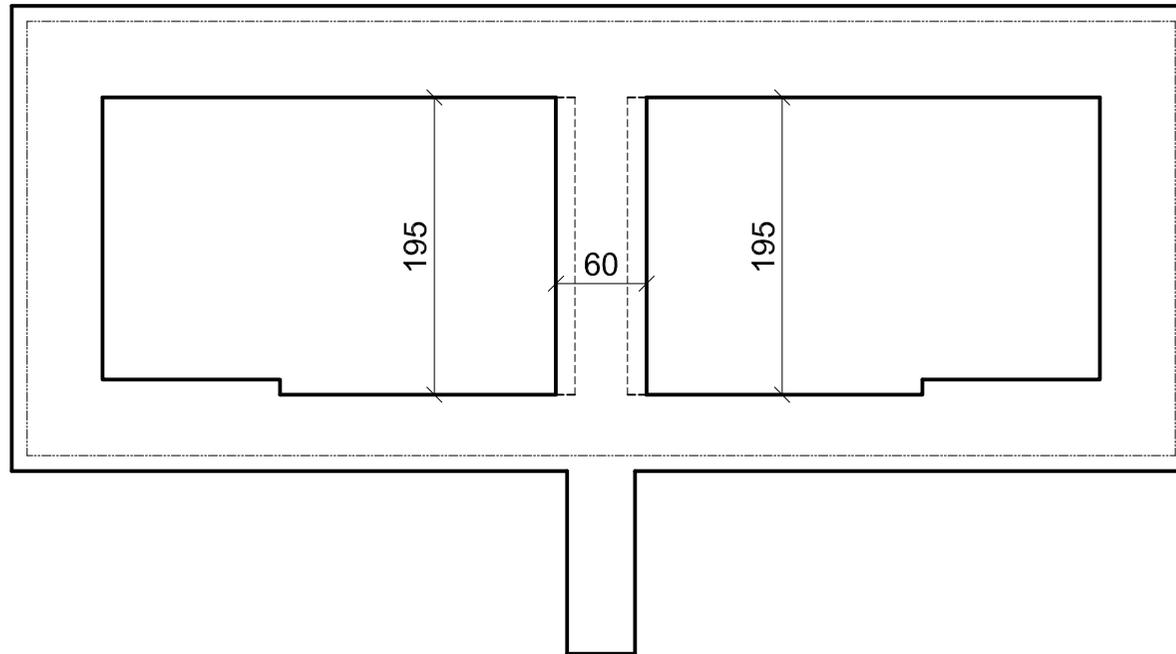
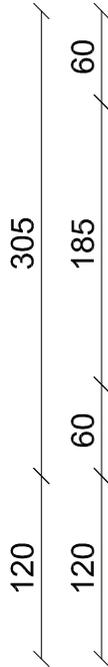
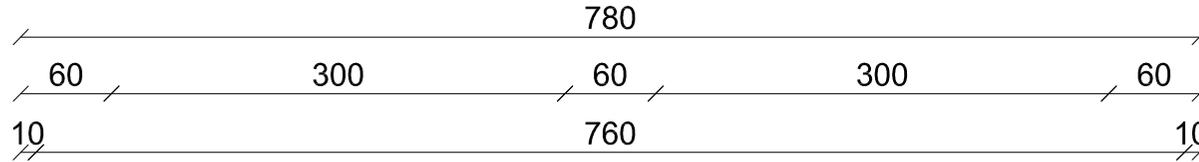


# Detail 1



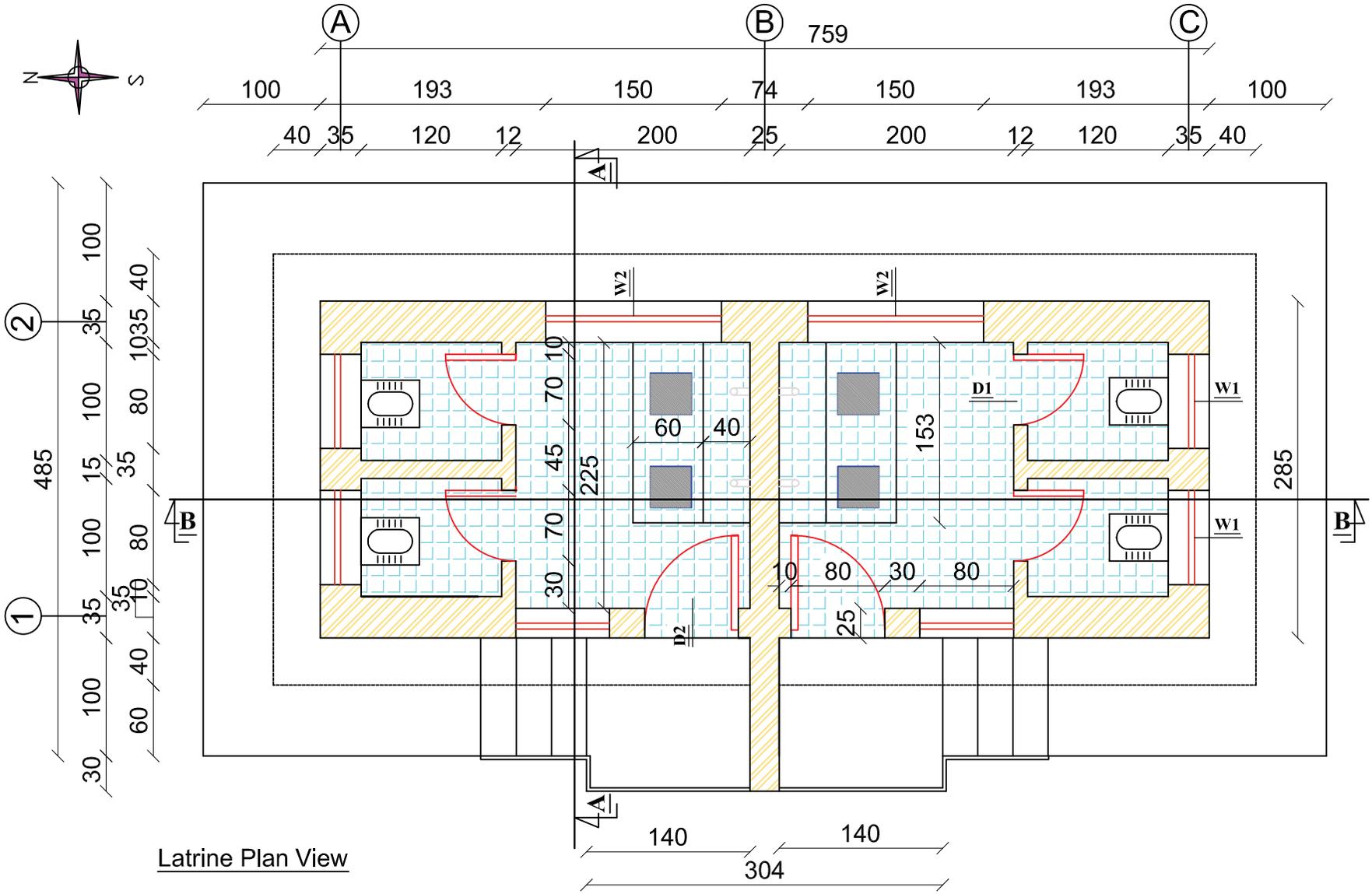
# Cross section B-B

Drawing Title: Cross section B-B from traveler waiting hall	Surveyed by:	[REDACTED]	Position/Organization	Project Name: Construction of bus terminal
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Conceptual Approved by:	Project Engineer RAMP-UP N			
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 10/20	Approved by:	Engineering Director RAMP-UP N	Date:	November 2012
		Project Manager RAMP-UP N		



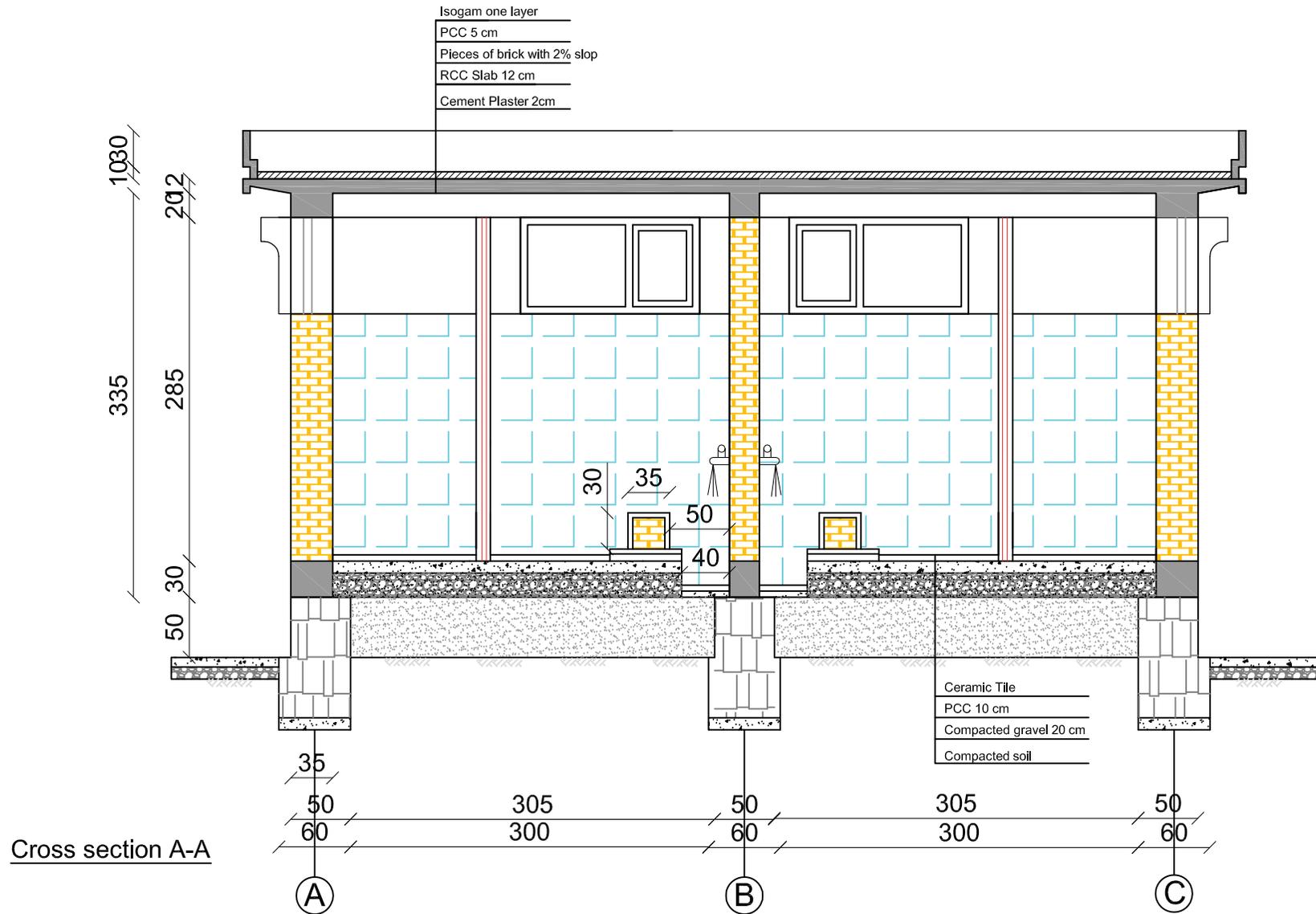
Latrine Foundation Plan

Drawing Title: Latrine Foundation Plan	Surveyed by:	[REDACTED]	Position/Organization	Project Name: Construction of bus terminal  Date:
	Estimated by:		Project Engineer RAMP-UP N	
	Conceptual Approved by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 12/21			Engineering Director RAMP-UP N	

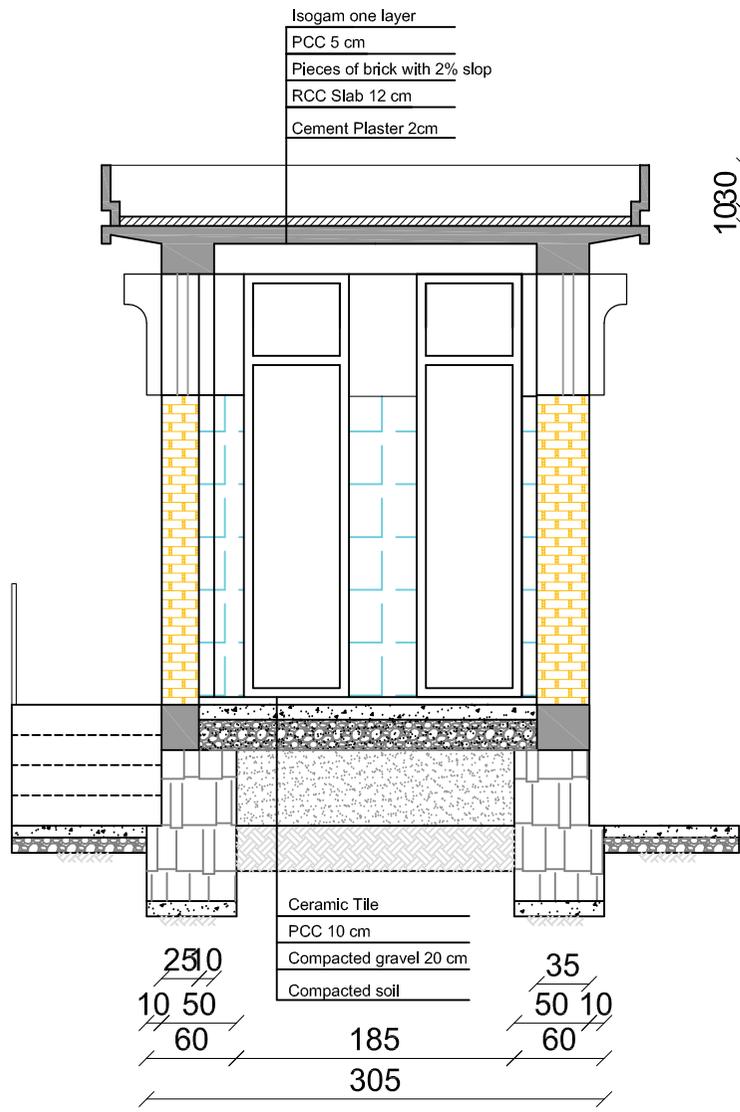


**Latrine Plan View**

Drawing Title: Latrine Plan	Surveyed by:	[REDACTED]	Position/Organization	Project Name: Construction of bus terminal
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	Conceptual Approved by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 13/21			Engineering Director RAMP-UP N	Date:

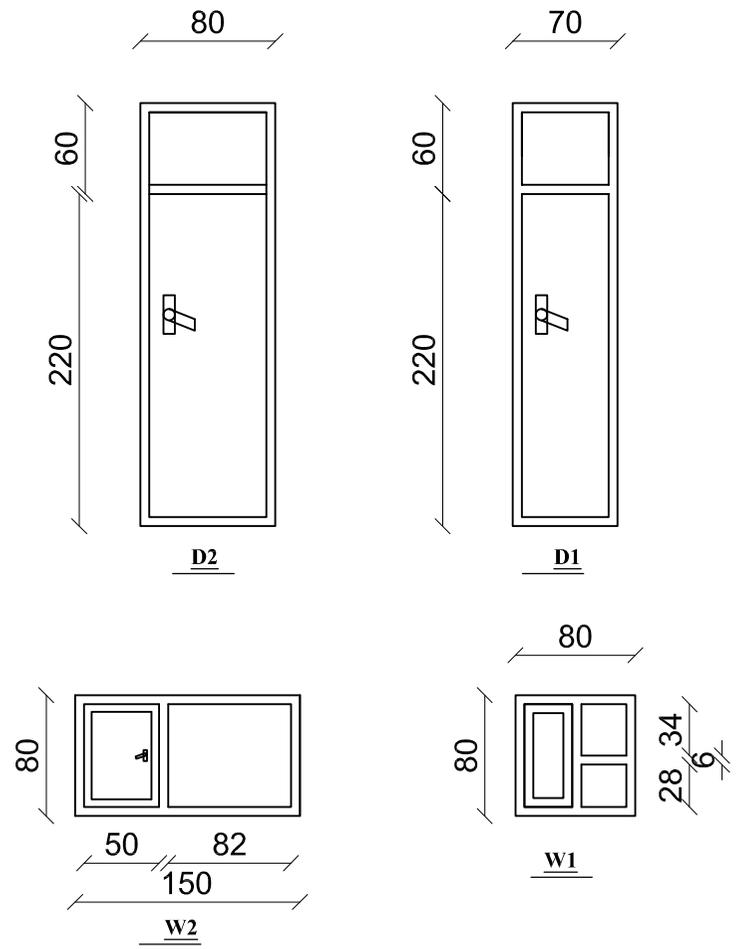


Drawing Title: Cross section A-A	Surveyed by:	[REDACTED]	Position/Organization	Project Name: Construction of bus terminal
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Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 14/21			Engineering Director RAMP-UP N	Date:

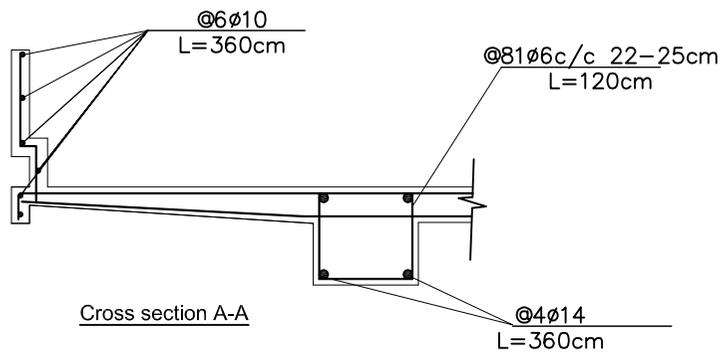
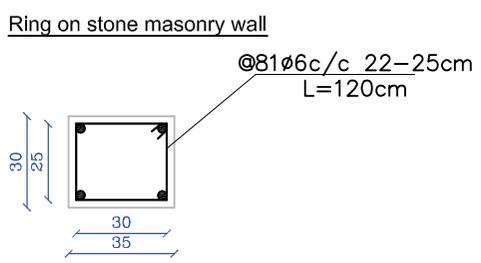
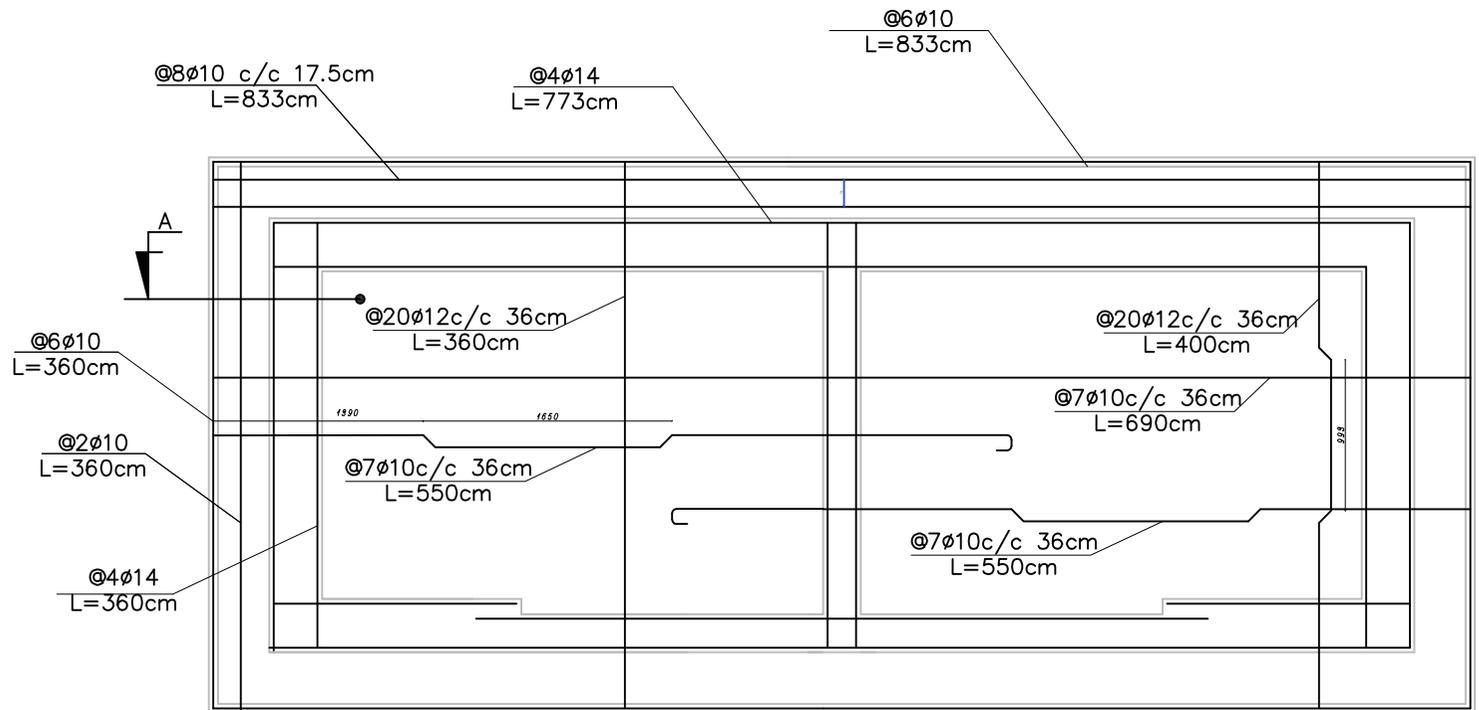


Cross section B-B

**Doors and window sizes**

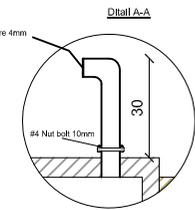
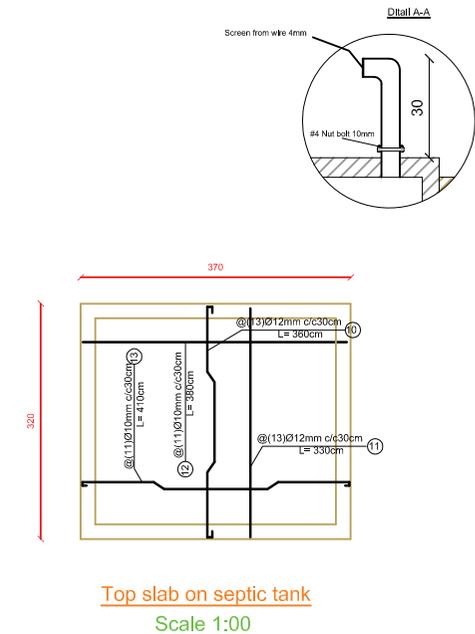
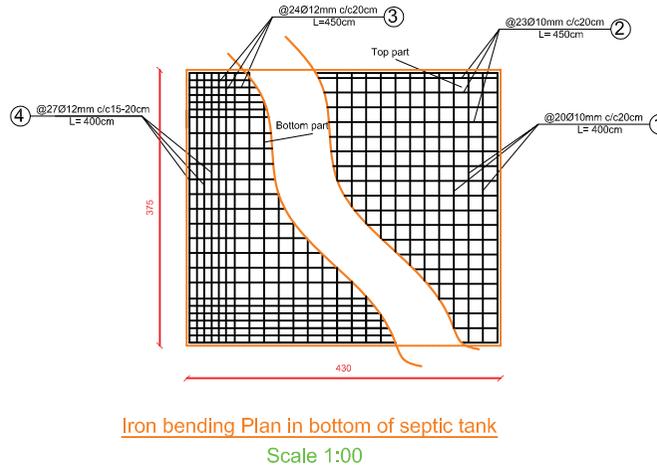
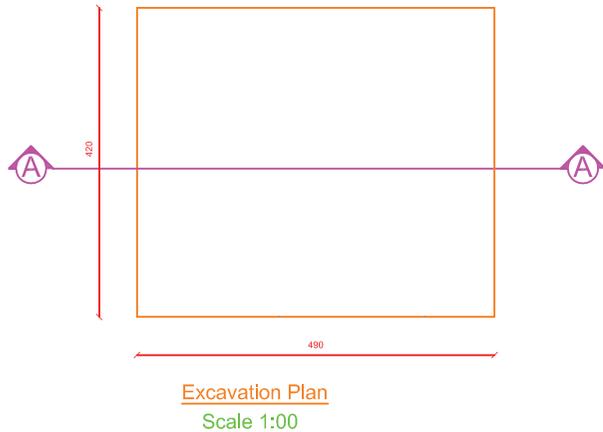
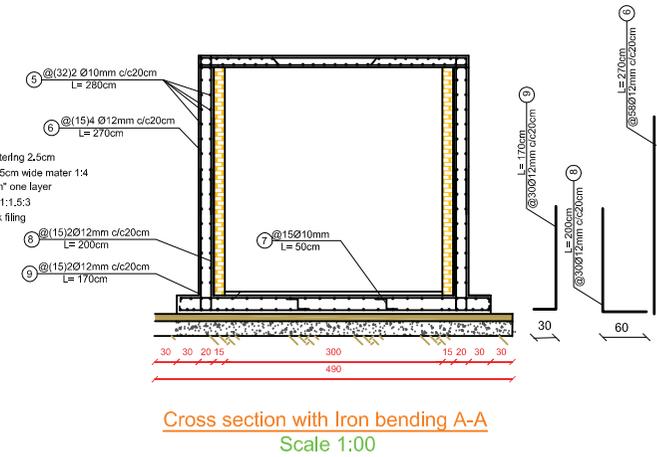
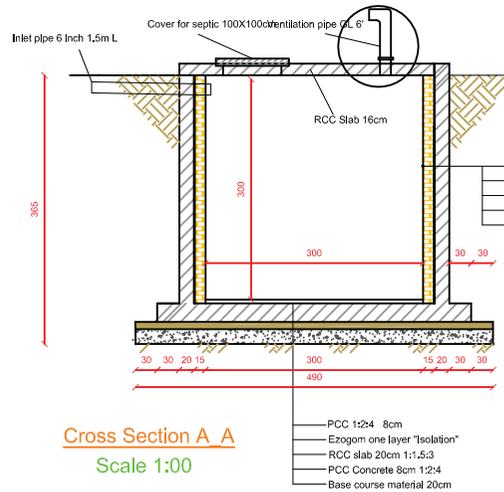
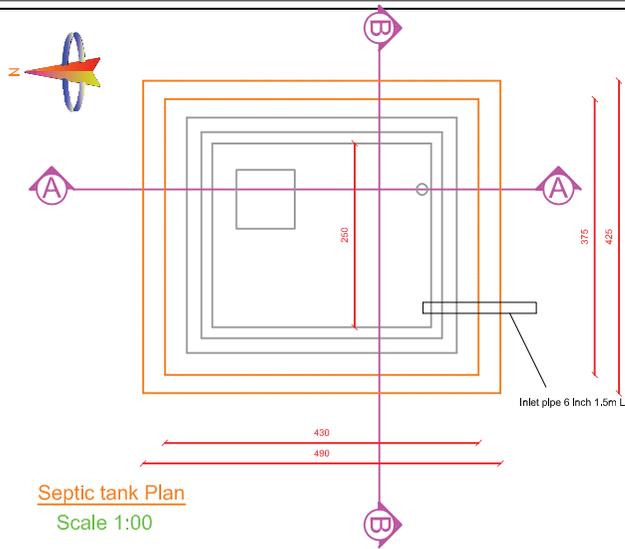


Drawing Title: Cross section B-B	Name [Redacted]	Position/Organization Project Engineer RAMP-UP N	Project Name: Construction of bus terminal
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	Estimated by: [Redacted]	Deputy SDAG	
Drawing Number: 15/21	Conceptual Approved by: [Redacted]	Mayor of Sheberghan	Date:
	Technical Checked by: [Redacted]	Engineering Director RAMP-UP N	

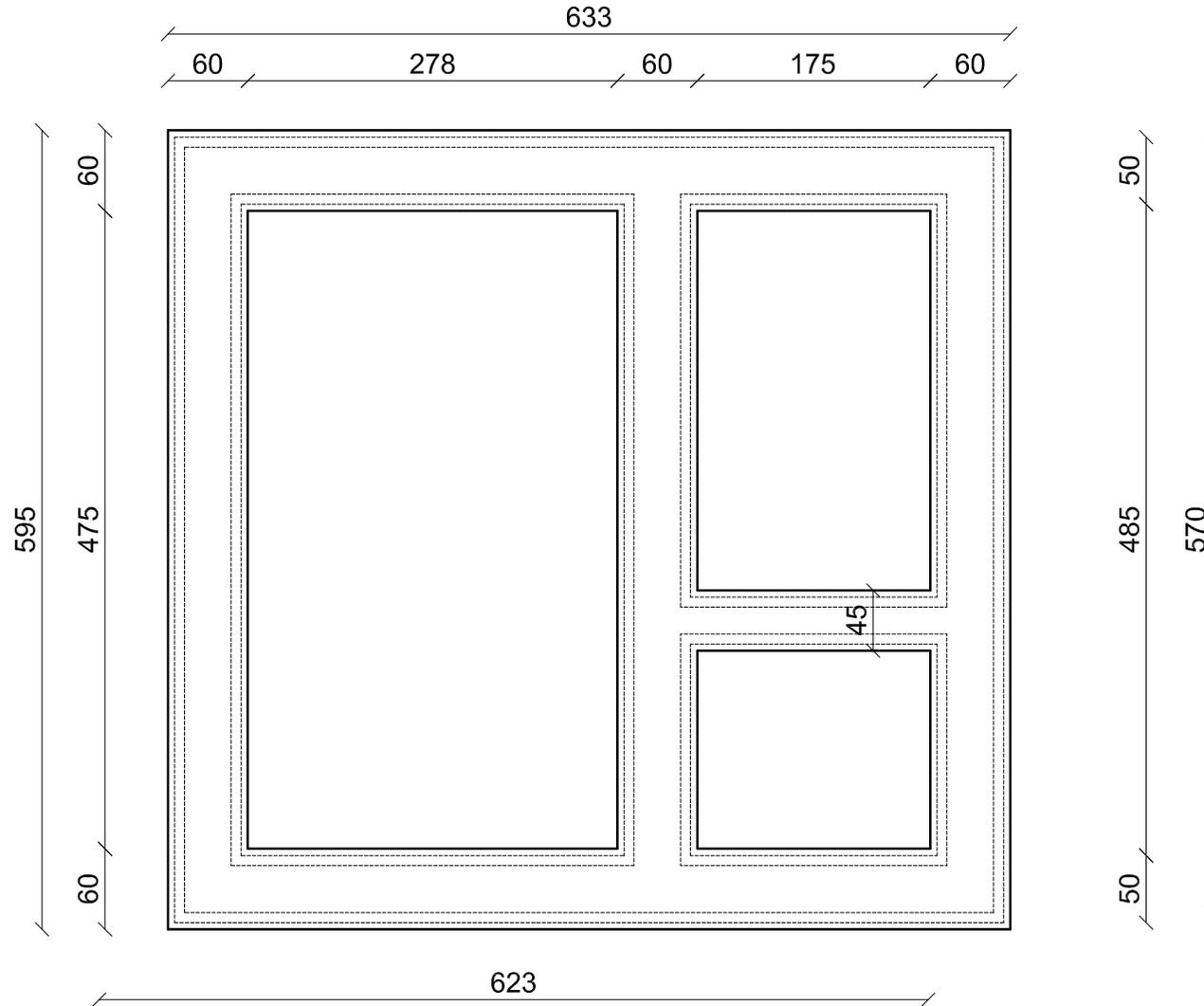
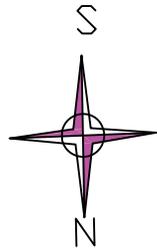


Latrine steel bending Plan

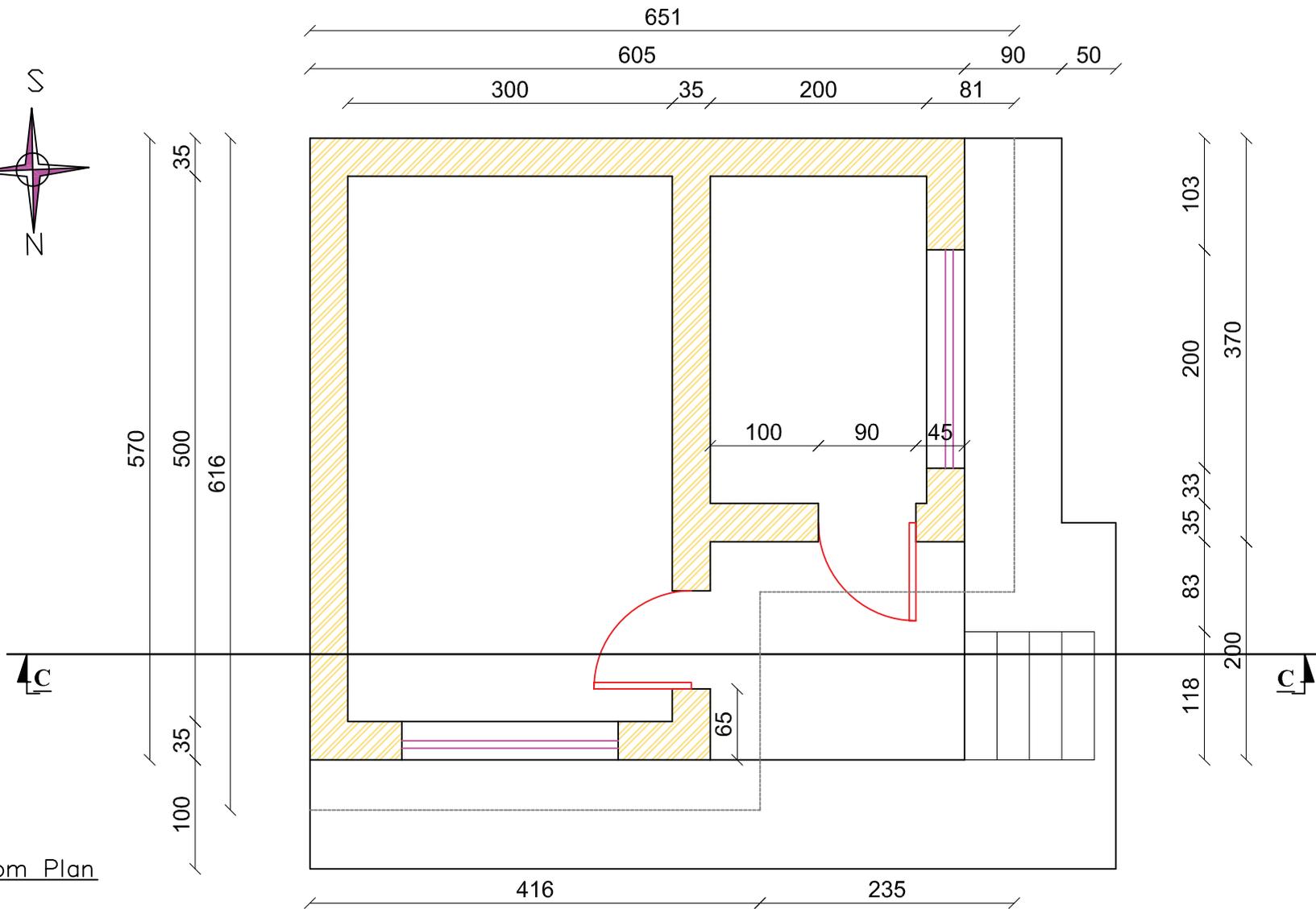
Drawing Title: Latrine steel bending Plan	Surveyed by:	[REDACTED]	Position/Organization	Project Name: Construction of bus terminal
	Estimated by:		Project Engineer RAMP-UP N	
	Conceptual Approved by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 16/21			Engineering Director RAMP-UP N	Date:



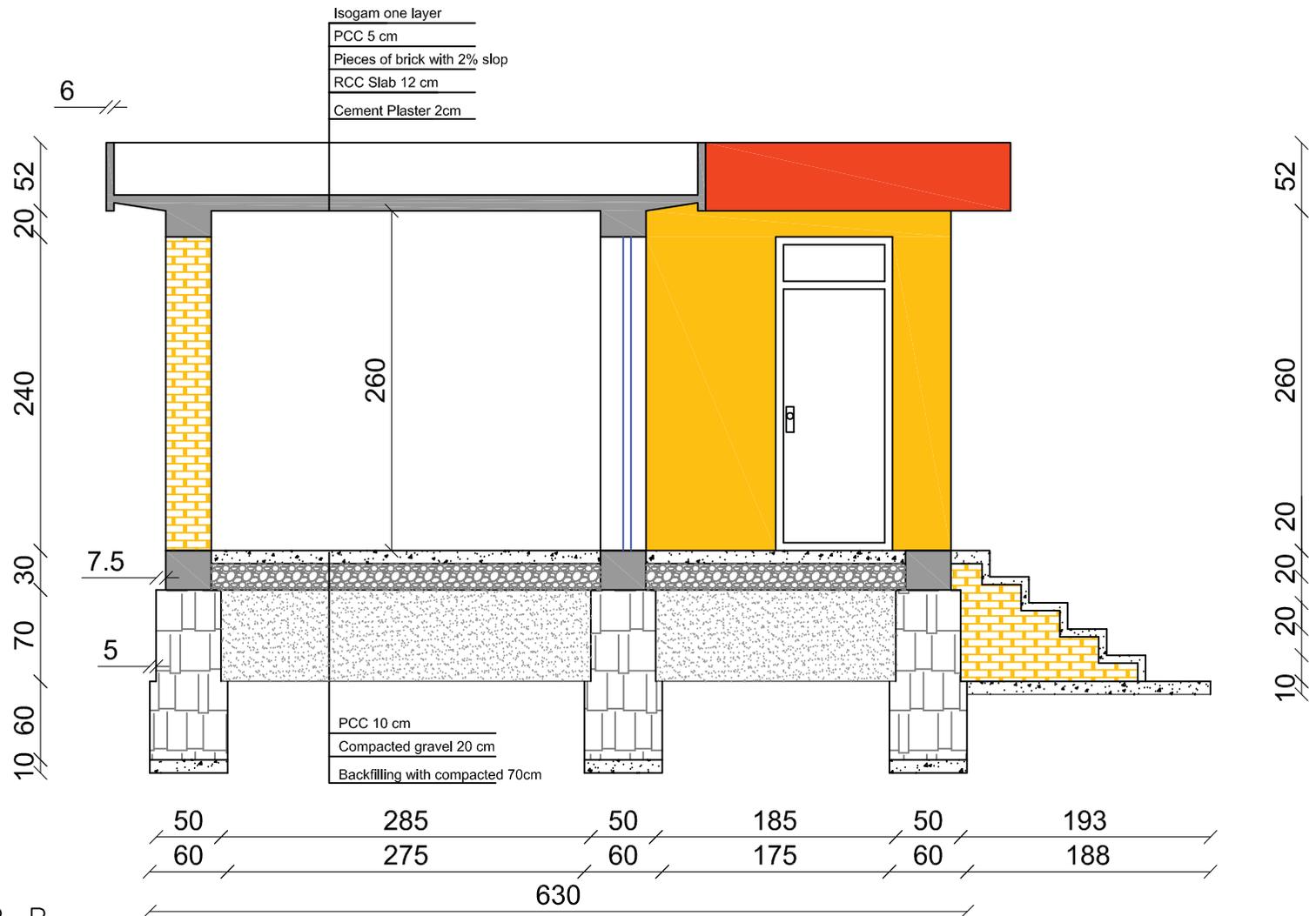
Drawing Title: Septic tank plan and cross sections	Surveyed by:	[Redacted]	Position/Organization	Project Name: Construction of bus terminal
	Estimated by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Project Engineer RAMP-UP N			
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 17/21	Approved by:	Engineering Director RAMP-UP	Date:	December 2012
		Project Manager RAMP-UP N		



Drawing Title: Guard room Plan		Name	Position/Organization	Project Name: Construction of bus terminal
	Surveyed by:		Project Engineer RAMP-UP N	
	Estimated by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Deputy SDAG			
Drawing Number: 18/21	Conceptual Approved by:	Mayor of Sheberghan	Date:	
	Technical Checked by:	Engineering Director RAMP-UP N		

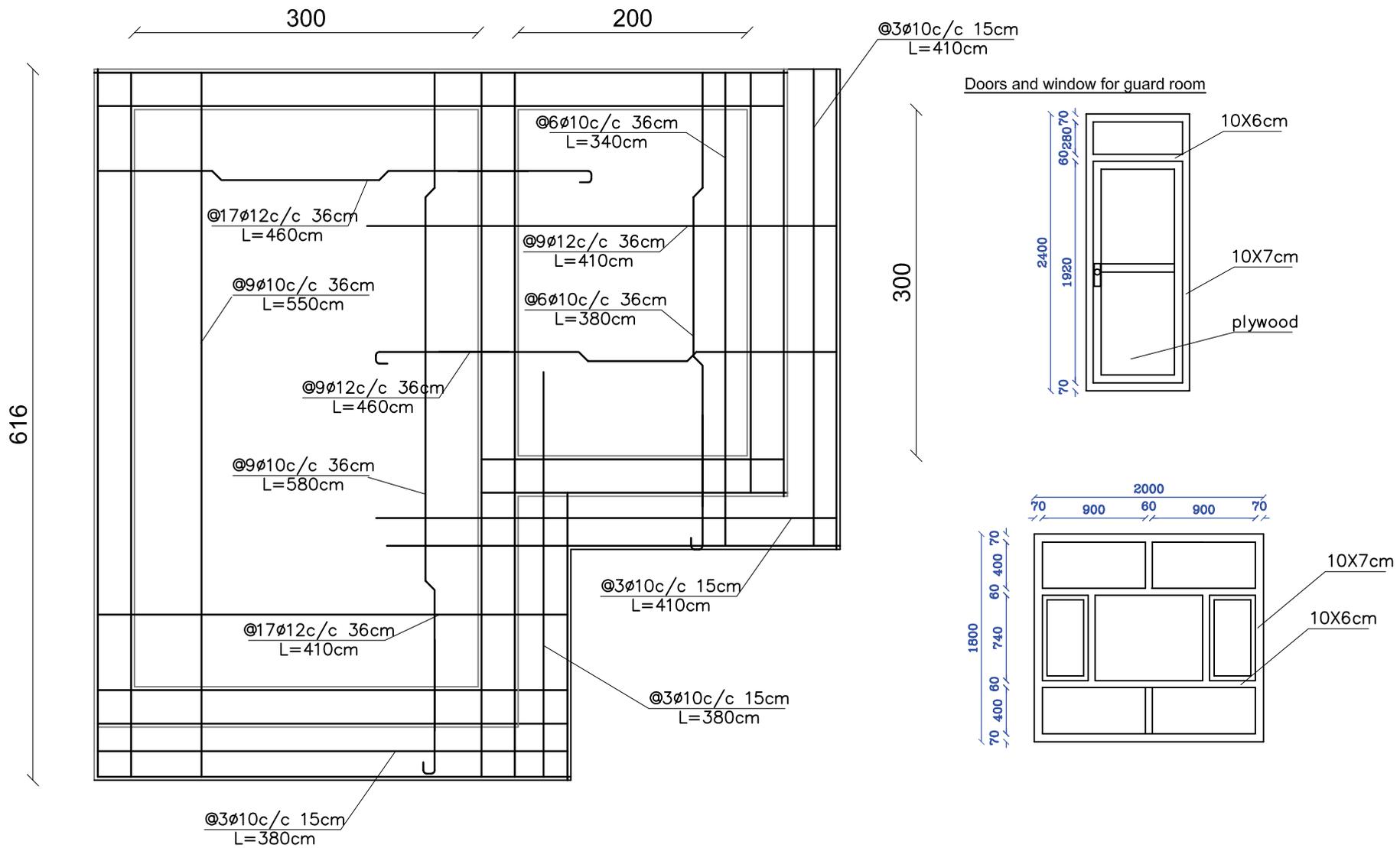


Drawing Title: Guard room Plan		Name	Position/Organization	Project Name: Construction of bus terminal
	Surveyed by:	[REDACTED]	Project Engineer RAMP-UP N	
	Estimated by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Deputy SDAG			
Drawing Number: 19/21	Conceptual Approved by:	Mayor of Sheberghan	Date:	
	Technical Checked by:	Engineering Director RAMP-UP N		

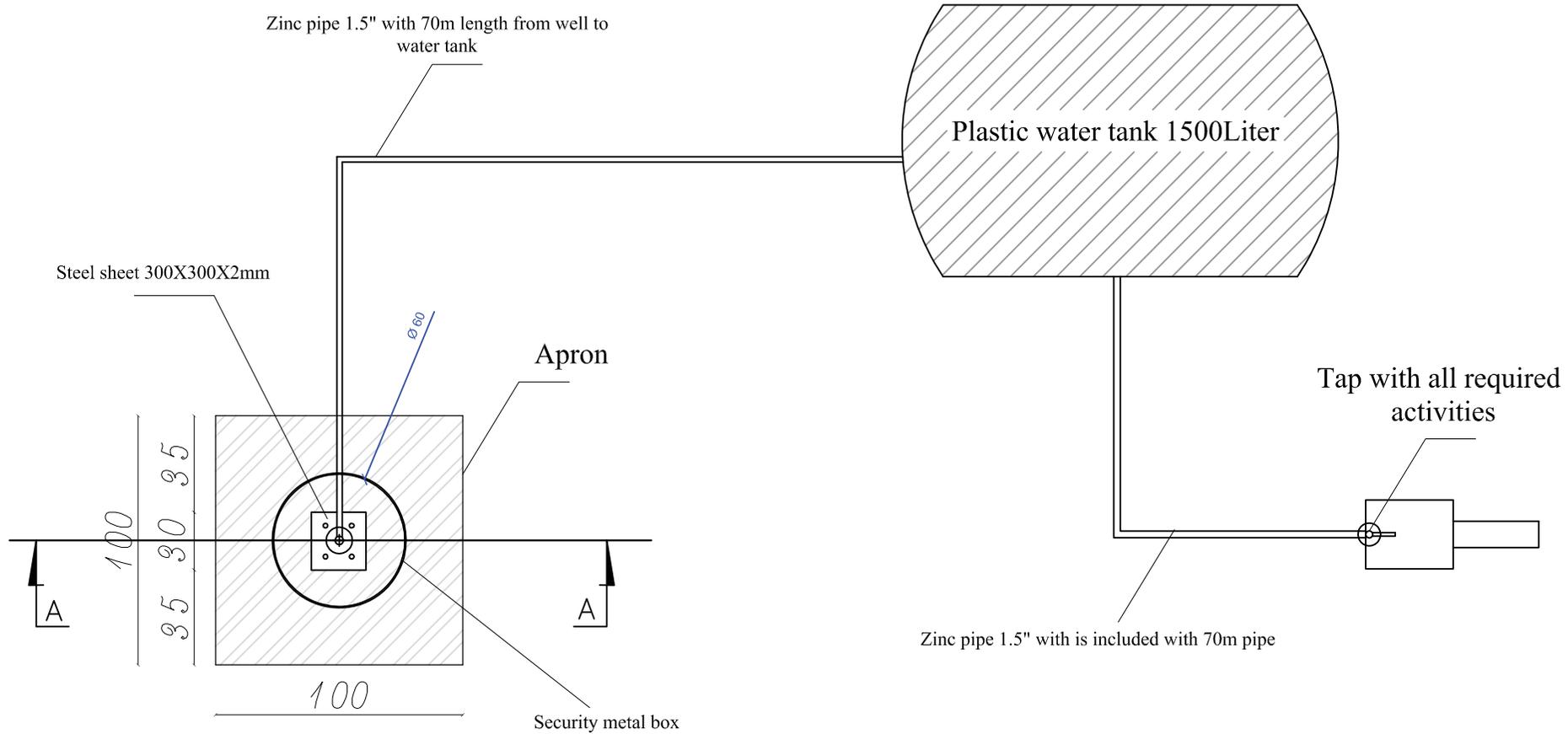


Cross section B-B

Drawing Title: Cross section B-B	Surveyed by:	[REDACTED]	Position/Organization	Project Name: Construction of bus terminal
	Estimated by:		Project Engineer RAMP-UP N	
	Conceptual Approved by:		Project Engineer RAMP-UP N	
Conceptual Approved by:	Deputy SDAG			
Technical Checked by:	Mayor of Sheberghan			
Drawing Number: 20/21			Engineering Director RAMP-UP N	Date:



Drawing Title: Guard room steel bending and door and windows detail	Surveyed by:	Name [REDACTED]	Position/Organization	Project Name: Construction of bus terminal
	Estimated by:		Project Engineer RAMP-UP N	
	Conceptual Approved by:		Deputy SDAG	
Drawing Number: 21/21	Conceptual Approved by:	Mayor of Sheberghan	Date:	
	Technical Checked by:	Engineering Director RAMP-UP N		



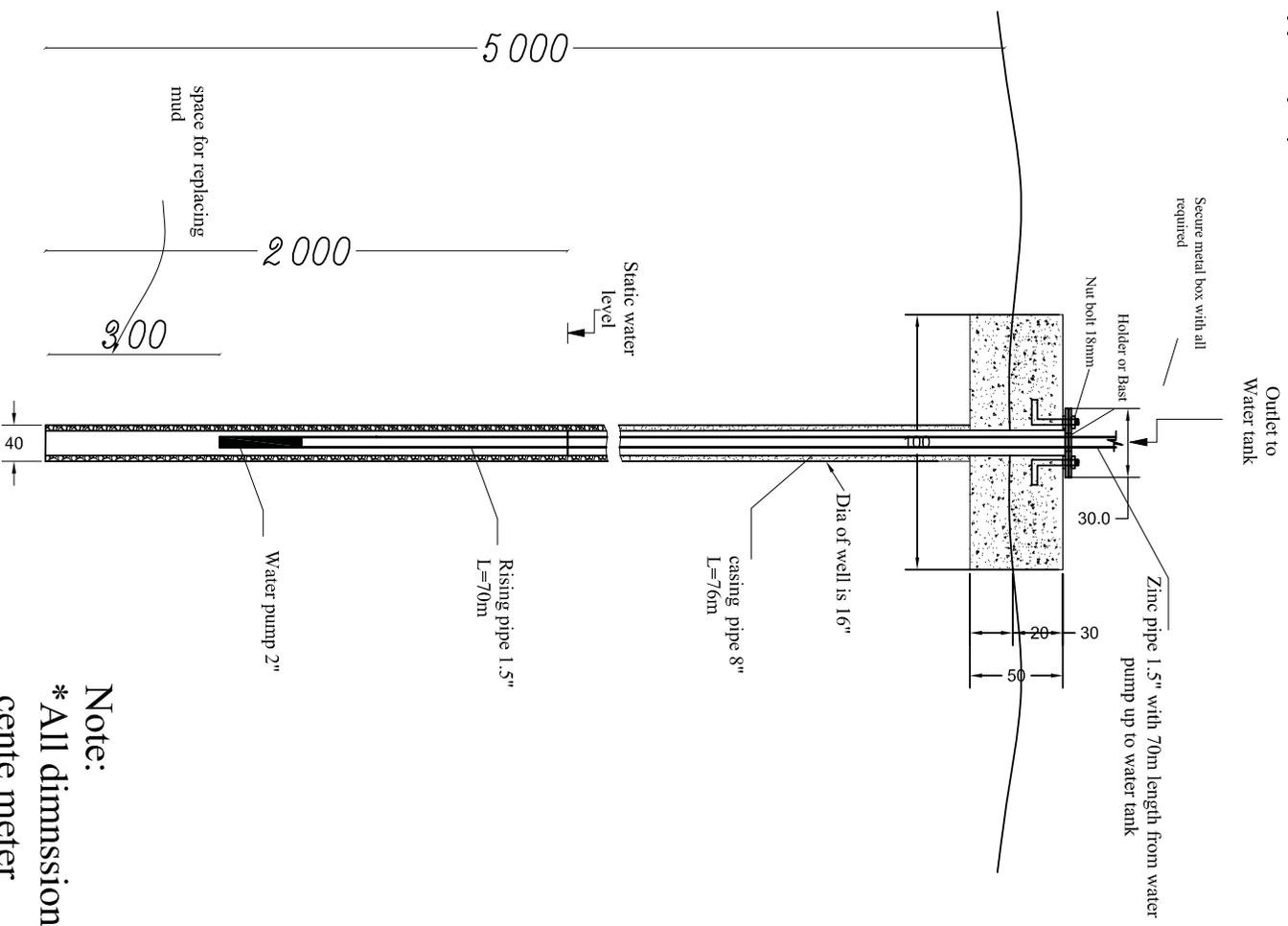
Semi well plan view

Drawing Title: Well plan with its apron	Name		Position/Organization	Project Name: Digging semi well
	Surveyed by:	[REDACTED]	Project Engineer RAMP-UP N	
	Estimated by:	[REDACTED]	Project Engineer RAMP-UP N	
Drawing Number: 1/2	Conceptual Approved by:	[REDACTED]	Head of SDAG	Date: June 2012
	Conceptual Approved by:	[REDACTED]	Mayor of Maymana	
	Technical Checked by:	[REDACTED]	Engineering Director RAMP-UP N	
	Approved by:	[REDACTED]	Project Manager RAMP-UP N	

## Section A-A

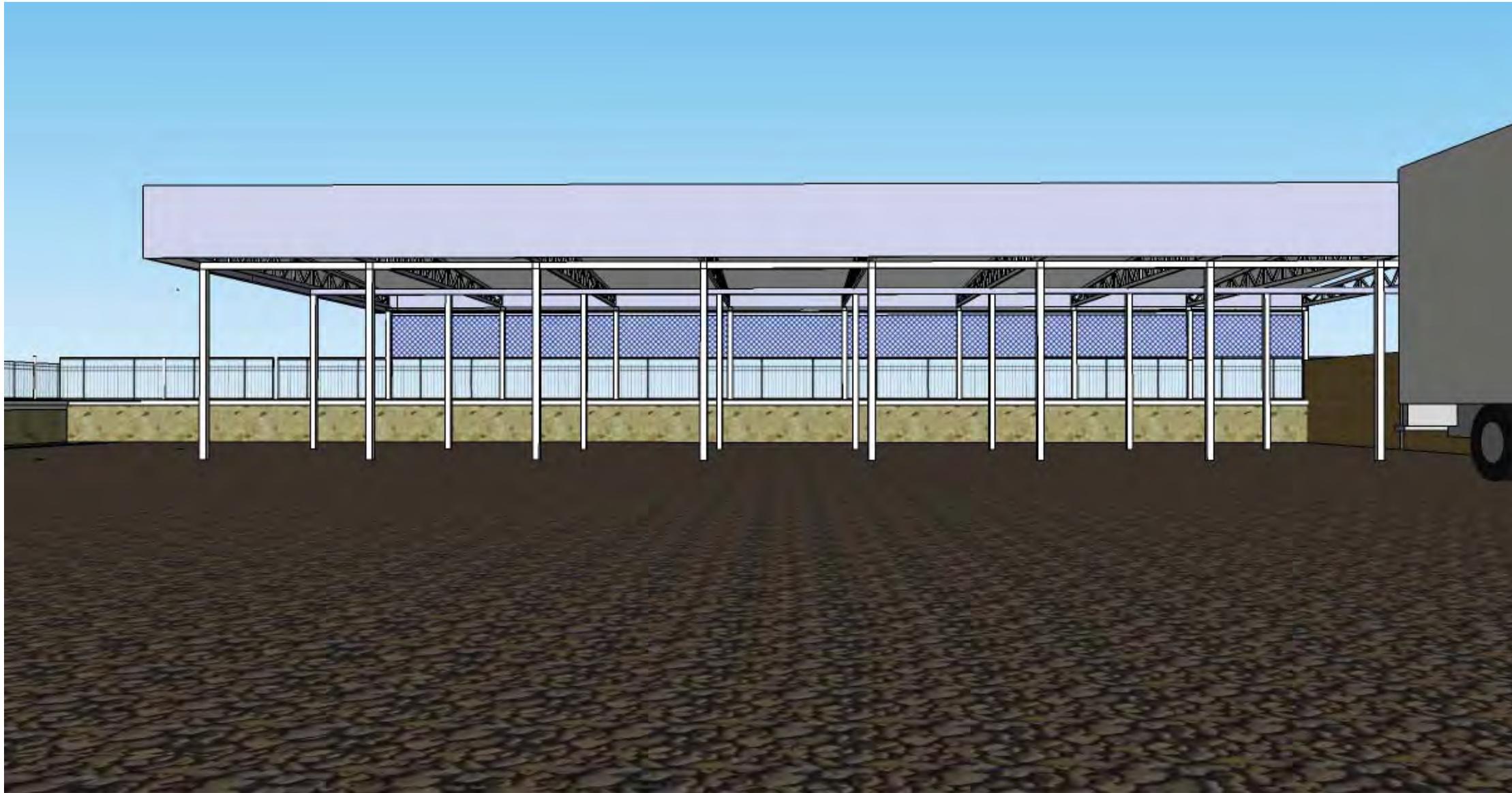
### Well Specification:

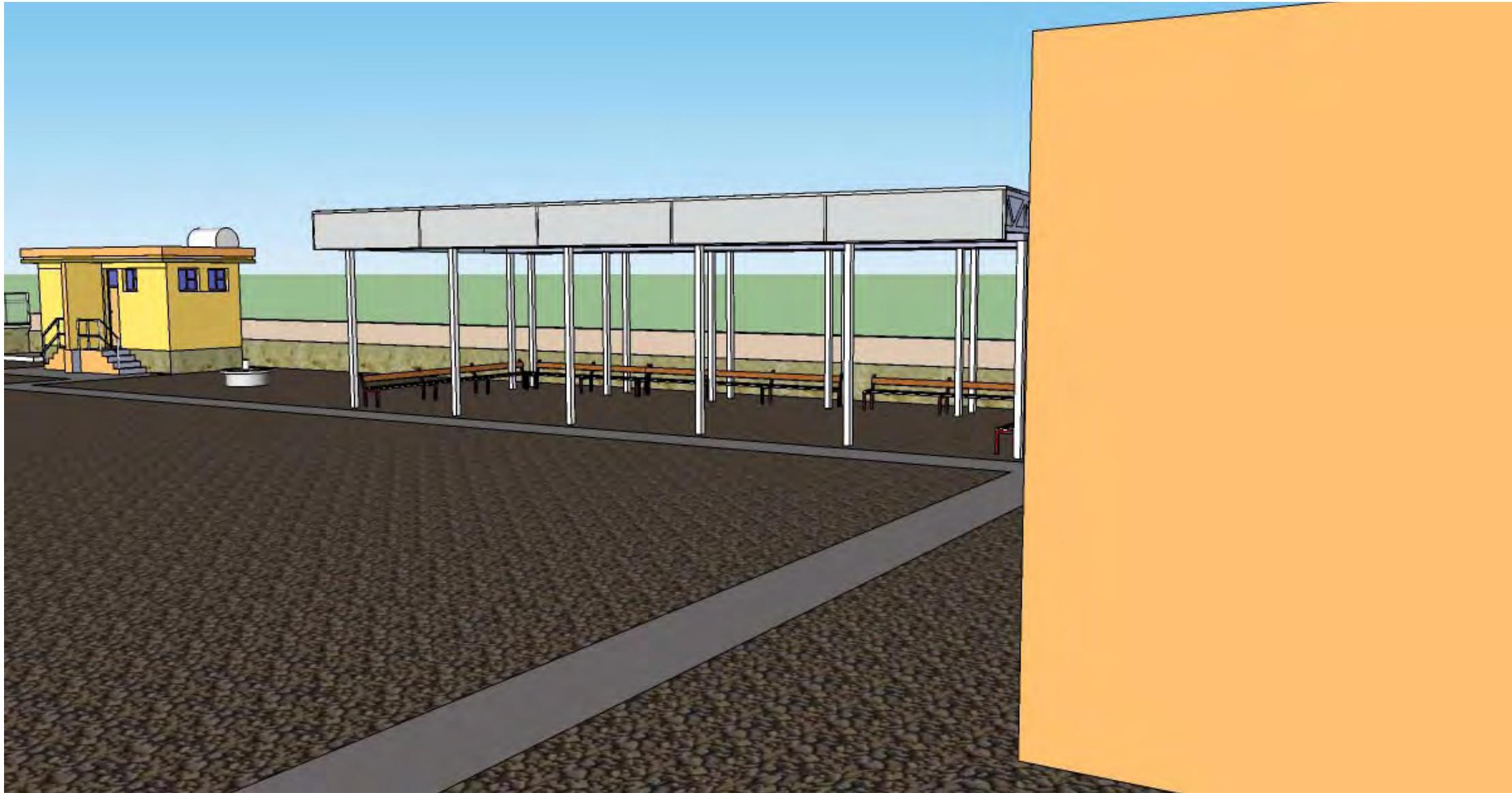
1. Location: Sheberghan District #4
2. Depth's well: 50m
3. Drilling/digging diameter: 8"
4. Kind of casing & screen: PVC pipe best quality 6"
5. Static water level: 30.0m



**Note:**  
 \* All dimension is in  
 cente meter

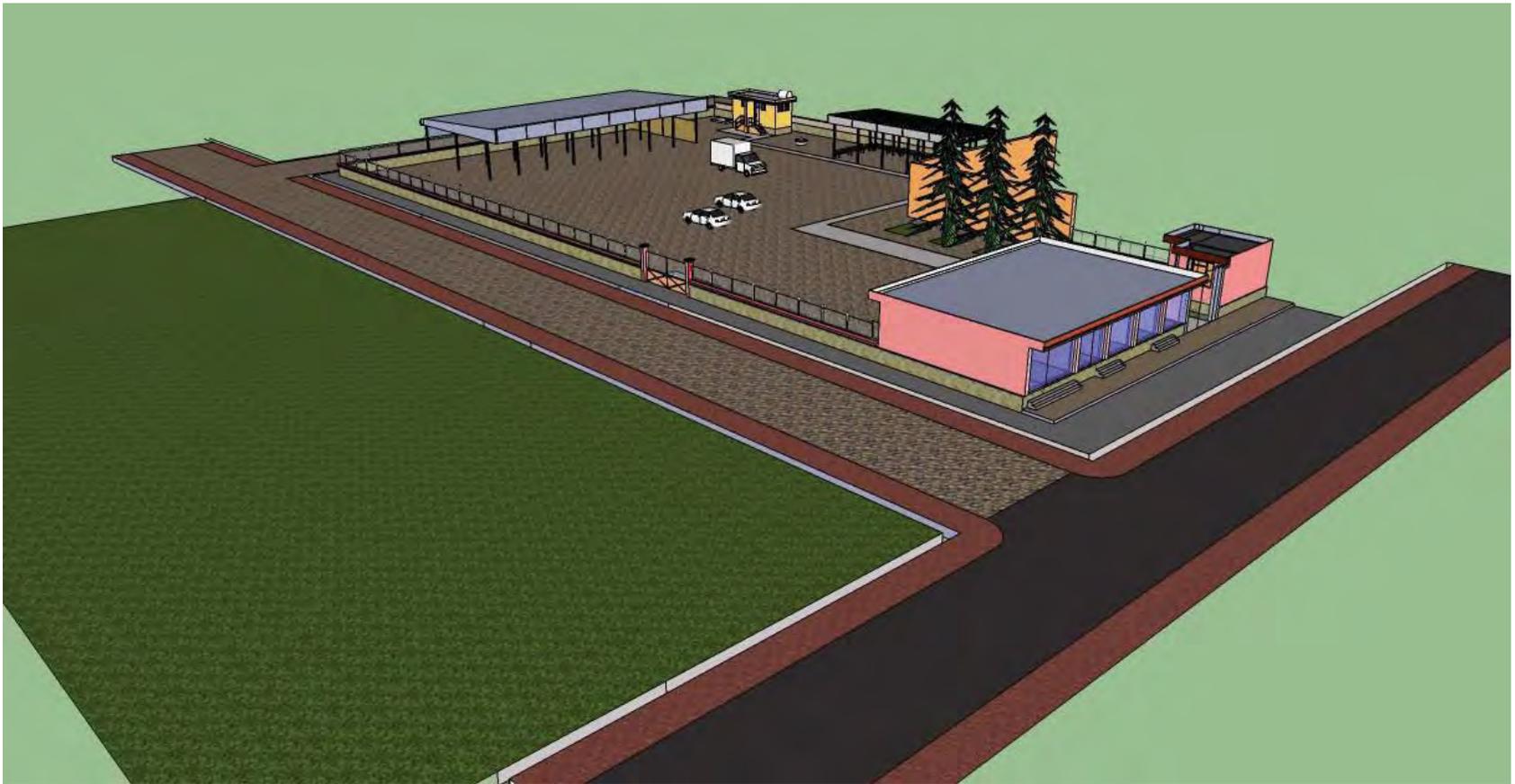
<p><b>Drawing Title:</b> Well Cross section</p> <p>Surveyed by: _____</p> <p>Estimated by: _____</p> <p>Conceptual Approved by: _____</p> <p>Technical Checked by: _____</p> <p>Approved by: _____</p>	<p><b>Name:</b> _____</p> <p><b>Position/Organization:</b></p> <p>Project Engineer RAMP-UP N</p> <p>Project Engineer RAMP-UP N</p> <p>Head of SDAG</p> <p>Mayor of Moymona</p> <p>Engineering Director RAMP-UP N</p> <p>Project Manager RAMP-UP N</p>
<p><b>Project Name:</b> Digging semi well 50m deep well</p>	
<p><b>Date:</b> June 2012</p>	











## **APPENDIX B – SHEBERGHAN BUS TERMINAL CONSTRUCTION SCOPE OF WORK**

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**Regional Afghan Municipalities Program for Urban Populations**

**(RAMP UP-North)**

**Regional Command North**

**Proposed Scope of Work Document**

**Province:** Jawzjan  
**Municipality:** Sheberghan  
**Project Number:** RUN-P-SHB-004  
**Project Name:** Construction of a Bus Terminal  
**Project Duration:** 3 Months  
**Estimated Project Cost USD:** \$ [REDACTED]  
**Date:** January 27, 2013

**MGRS Coordinates of Project Area:** 41SQA4764961479

**GPS Coordinates:**

**Latitude:** 36°40'0.21"N

**Longitude:** 65°46'15.47"E

## **I. Problem Statement:**

The Sheberghan Municipality, with an estimated population of 74,800 residents (37,900 men and 36,900 women) is one of the key cities that people transit through on their way to and from Kabul and other provincial districts. The city does not have a bus terminal, and travelers stand on the city's main street for hours without access to public latrines or other facilities. In addition, the lack of vehicle parking facilities around the bus transit area causes traffic jams and increases the risk of traffic accidents.

## **II. Solution Statement:**

On September, 24, 2012, citizens of Sheberghan and the municipality held a Service Delivery Advisory Group (SDAG) meeting with the participation of 14 men and 2 women from the SDAG, 3 municipal officials and the Mayor, where participants identified the construction of a bus terminal as their first priority. The terminal will include building covered waiting areas for passengers, constructing a four-cabin flushing public latrine (two cabins for men and two for women), and constructing a 4,000 m<sup>2</sup> parking lot.

The construction of this bus terminal, parking lot, and public latrines will address the problem of traffic jams in the municipality, and the latrines will also improve public health and the cleanliness of the municipal environment.

## **III. Beneficiaries:**

The direct beneficiaries are the entire population of Sheberghan city which is estimated 74,800 residents (37,900 men and 36,900 women) by CSO population data 2011-12. However, 560 passengers from Jawzjan and neighboring provinces will be benefiting daily, who travel through Sheberghan. The entire population of Jawzjan and other neighboring provinces will indirectly benefit from the project due to a reduction of traffic congestion and traffic accidents, as well as a cleaner environment.

## **IV. Scope of Work:**

### **A. Methodology:**

The proposed project requires construction work, which will be subcontracted to a private company. The subcontractor will be selected through a transparent procurement process, and the subcontractor will complete the required activities under the supervision of the municipality and RAMP UP-North.

### **B. Goods and Services Provided by RAMP UP-North:**

A subcontractor will be selected for the construction of the Bus Terminal, which includes the following activities:

- Site preparation "cutting, normal filling h=30cm, base course filling h=20cm, leveling, watering and compaction with 4710 m<sup>2</sup>".
- Construction of boundary wall 178.2m length and supplying and installation of gates and fence 140m with best fully welded and clean painting for Bus Terminal.
- Construction of 423.4 m<sup>2</sup> Bus Station includes: roof frame with cover GI sheet 0.5, base course floor, posts 14 x14 cm T= 3mm, excavation, steel net, brick masonry, PCC under the footing of RCC based on the drawings.
- Construction of 152.8m<sup>2</sup> waiting hall for travelers,

- Construction of Sidewalks 114.24 square meter,
- Construction of 95.2m RCC drainage,
- Construction of four-cabin latrine, two cabins for women and two for men at the land of 36.9m2,
- Construction of Semi deep well depth 50m and 8 inch diameter (See the drawings).

**C. Goods and Services Contributed by Municipality (estimated value of \$ [REDACTED])**

No.	Item	Quantity	Unit	Unit Cost	Total Cost
				AFA	AFA
	Construction of 6 shops with 90m2, restaurant with 50m2 and sidewalk with 212m2 which is included (excavation for foundation, stone masonry 1:4, back filing, Plain Cement Concrete "PCC" 1:2:4, brick masonry work 1:4, Reinforcement Cement Concrete "RCC" 1:1.5:3, pointing work 1:3, plastering work 1:5, supplying and installation of electrical system, supply and installation of 86.4 m2 stretchable doors , supply and installation of 94m2 10mm glass door with aluminum frame, and windows with all activities, supply and installation of Ezogam on roof, 100% plastic painting interior and exterior of the building based on drawings ).				
1.0	Excavation for foundation	59.30	m3		
2.0	Plain Cement Concrete "PCC" 1:2:4 with all required activities	61.63	m3		
3.0	Stone masonry work with mortar 1:4 with all required activities	78.39	m3		
4.0	Pointing of stone masonry with mortar ratio - 1:3 with all required activities.	40.60	m2		
5.0	Back filling with specific material	147.50	m3		
6.0	Stone pitching from stone 15-20cm thickness	82.83	m3		
7.0	Brick masonry work with mortar 1:5 with all required activities	64.46	m3		
8.0	Reinforcement Cement Concrete "RCC" 1:1.5:3 for slabs, rings, foundation, pillars and picks with cement mortar 1:1.5:3 with all required activities	71.57	m3		
9.0	Plastering work with cement marker 1:5 with all required activities	835.74	m2		
10.0	Providing and installing chaps concrete on restaurant floor with nice designing	57.50	m2		
11.0	Providing and installation of electrical system in clouding all conduit, line, cables, switch, socket, lamp, fan, kindlers, and other activities complete	1.00	lamb sum		
12.0	Providing and installation of ezogam one layer	272.00	m2		
13.0	Painting work all part of the building interior and exterior with Homix 100% paint	835.74	m2		
14.0	Providing and installation of stretchable gate for shops and restaurant	86.40	m2		
15.0	Providing and installation of 10mm glass with aluminum frame for shops and restaurant doors.	94.08	m2		
16.0	Providing and installation of PVC door for restaurant	6.50	m2		
<b>Estimated Value of Goods and Services Contributed by Municipality</b>					

All subcontractors for RAMP UP North activities are required to hire local laborers for all unskilled labor positions. These laborers will be hired from within the community of the nearby villages and beneficiaries of RUN activities. The subcontractor shall be responsible for providing documentation of the number of both skilled and unskilled laborers and number of days worked.

## Cost Estimation for Goods and Services Provided by RAMP UP-North

Bill of Quantity						
No.	Item	Quantity	Unit	Unit cost	Total cost	
				AFA	AFA	
1.0	<b>Sit preparation "cutting, normal filling h=30cm, base course filling h=20cm, leveling, watering and compaction with 4710 m2".</b>					
1.01	Cutting and filling bus area with common soil with 30cm thickness including transportation cost.	810.00	m3		0.00	
1.02	Laying base course material on bus terminal general area with 20cm thickness and compaction (with 10T machine) and watering according technical specification (50 % well graded crushed aggregate, 30% sand and 20% suitable soil including transportation and all required activities)	942.00	m3		0.00	
2.00	<b>Construction of boundary wall 178.2 m length, including excavation for foundation, Plain Cement Concrete "PCC" work 1:2:4, stone masonry work 1:4 upper and down the ground, pointing work 1:3, reinforcement cement concrete "RCC" 1:1.5:3 with shuttering, steel bar, curing at least for 14-18 days and cold climate 28 days and plastic painting, supply and installation of gates and fence 140m with best fully welded and clean painting.</b>					
2.01	Excavation of foundation in earth type 3 with all requirement	68.30	m3		0.00	
2.02	Plain Cement Concrete "PCC" work under stone masonry wall with cement ratio 1:2:4	11.38	m3		0.00	
2.03	Stone masonry work with mortar 1:4 with all required activities including some backfilling base on the site.	134.65	m3		0.00	
2.04	Providing and installation of fence including two coat oil painting and light on every two pillar with cabling, cover sheet and original 40w light best quality see fence detail and drawings	140.00	m/l		0.00	
2.05	Pointing of stone masonry with mortar ratio - 1:3 with all required activities.	376.00	m2		0.00	
2.06	Reinforcement Cement Concrete "RCC" (1:1.5:3) M:200 footings, columns, rings with shuttering and steel bar best quality of steel, cement, (375kg per m3) clean coarse sand and crushed gravel ≤32mm mixing the aggregate, placing and form works, curing at least for 14-18 days and cold climate 28 days	26.00	m3		0.00	
2.07	Gate with all required activities as per drawing and specification	29.00	m2		0.00	
3.0	<b>Construction of 423.4 m2 Bus Station include: roof frame with cover GI sheet 0.5, base course floor, posts 14 x14 cm T= 3mm, excavation, steel net, brick masonry, PCC under the footing of RCC based on the drawings.</b>					
3.01	Excavation foundation of footings in soil type 3 with all requirement	10.368	m3		0.00	

3.02	Plain Cement Concrete "PCC" work under footings foundation cement ratio 1:2:4	1.152	m3		0.00
3.03	Reinforcement Cement Concrete "RCC" (1:1.5:3) M:200 for footings include: shuttering and best quality steel bar, cement, 375kg per m3 putting nut and bolt from bar 22mm in footing based on the drawings.	5.76	m3		0.00
3.04	Supply and installation of steel net for behind of bus garage with wire 3mm and mesh size 5X5cm.	131.00	m2		0.00
3.05	Bricks masonry walls with mortar 1:4 ration of cement and sand.	7.50	m3		0.00
3.06	Roofing work including (roofing frame profile 100X50X2mm and 50X50X1.5mm and 80X40X1.5mm, cover G.I sheet 0.5mm with screw and gasket rubber washers each 50cm C/C and 3 coat anti rust & oil painting and gutters, steel sheets in two side of the tube beams and tube columns and the bottom of the columns with specific nut and bolt steel bar 22mm, posts should profile (14 x 14 cm and thickness 3mm) based on drawing and specification.	423.40	m2		0.00
<b>4.0</b>	<b>Construction of 152.8m2 Waiting Hall for Travelers include:(roofing and truss frame profiles cover G.I sheet 0.5mm with screw and gasket rubber washers in each 50cm C/C. 3 coats oil paints and gutters. Posts profile 14 x 14 cm and thickness 3mm. Excavation for foundation, PCC and RCC footings putting 4 nut and bolt in each footing from bar 22mm. Supplying and installation of metal benches and Chinese ceiling based on the drawings).</b>				
4.01	Excavation for footings foundation in soil type 3 with all requirement	6.912	m3		0.00
4.02	Plain Cement Concrete "PCC" work under foundation cement ratio 1:2:4	0.768	m3		0.00
4.03	Reinforcement Cement Concrete "RCC" (1:1.5:3) M:200 footings with shuttering and steel bar best quality of steel, cement, 375kg per m3 putting nut and bolt 22mm in footing based on the drawings.	3.84	m3		0.00
4.04	Roof work from different profiles as per design, posts profile (14 x 14 cm and thickness 3mm), cover G.I sheet 0.5mm with screw and gasket rubber washers each 50 cm C/C. Entire frame should be best quality 1.5mm and 1 coat anti rust and 3 coat oil painting. Supply and installation of gutters, supporting plate, nut and bolt from steel bar 22 mm, and Chinese ceiling based on the drawings with all required activities.	152.81	m2		0.00
4.05	Supplying and installation plotline high pressure pipe with 20cm dia for water drainage for waiting hall. Should be completed with all activities like excavation, pipe installation, back filling and ventilation	31.00	m		0.00
4.06	Providing and installation of 30 meter wooden metal bench, 50cm wide and 40cm high from ground. Should have 50% wooden plank (section size 20x4 cm) including PCC for footing, and painting with all required activities see detail in drawings.	30.00	m		0.00
<b>5.0</b>	<b>Construction of Sidewalks 114.24 square meter activity includes: lining, filling base course material, PCC M 1:2:4, normal slope 1% and supply and installation of grills on top of drainage base on drawing and specification.</b>				
5.01	Base course material under side walk concrete including lining, watering and compaction	19.00	m3		0.00
5.02	Plain Cement Concrete "PCC" 1:2:4 with all activities shutting, watering and brushing	9.14	m3		0.00
5.03	Supply and installation of grills based on the drawing.	15.60	m		0.00

<b>6.0</b>	<b>Construction of 95.2 m RCC drainage including " excavation for foundation, laying base course materials, steel bar working, shuttering work with best plank, Reinforcement Cement Concrete "RCC" 1:1.5:3 for walls and floor curing at least for 14-18 days and cold climate 28 days</b>				
6.01	Excavation for foundation in earth type 3 with all requirement	51.800	m3		0.00
6.02	Base course material under drainage concrete including watering and compaction	6.100	m3		0.00
6.03	Reinforcement Cement Concrete "RCC" (1:1.5:3) M:200 for walls and floors with shuttering and steel bar best quality of steel, cement, 375kg per m3 curing at least for 14-18 days and cold climate 28 days based on the drawings.	16.10	m3		0.00
<b>7.0</b>	<b>Construction of 4 cabins latrine, two cabins for women and two for men at the land of 36.9m2. The activities include: excavation for foundation, stone masonry 1:4, back filing, Plain Cement Concrete M 1:2:4, brick masonry work 1:4, Reinforcement Cement Concrete 1:1.5:3, pointing work 1:3, plastering work 1:5, tiles and mosaic work 1:3, supplying and installation of water and sewer system, supplying and installation of complete water proof electrical system. Supply and installation of (water closed (Komod), sink, gutters, floor drain, wooden frame doors and windows including glasses, handrail, insulation (Ezogam). 100% plastic painting 3 coats interior and exterior of the building. Construction of RCC septic tank with 3m X 2.5m X 3m with all required activities based on drawings. (See drawings and BoQ)</b>				
7.01	Excavation for foundation in earth type 3 with all requirement	6.700	m3		0.00
7.02	Back filling with common dust including watering and compaction	7.700	m3		0.00
7.03	Base course material under the Plain Cement Concrete PCC including watering and compaction	3.100	m4		0.00
7.04	Plain Cement Concrete "PCC" 1:2:4 under foundation and floor curing at least for 14-18 days and cold climate 28 days with all required activities	6.800	m3		0.00
7.05	Stone masonry work 1:4 with all required activities curing at least for 14-18 days and cold climate 28 days	10.25	m3		0.00
7.06	Pointing of stone masonry with mortar ratio - 1:3 with all required activities.	25.15	m2		0.00
7.07	Bricks masonry walls, the work covered by this item shall consist of supplying and laying burnt bricks on the top of the super stone masonry. Bricks shall comply with requirements of first class bricks. The burnt bricks masonry shall be done by 1:4 ration of cement mortar.	21.7	m3		0.00
7.08	Reinforcement Cement Concrete "RCC" (1:1.5:3) M:200 footings, columns, rings, beams and slab with shuttering and steel bar best quality of steel, cement, (375kg per m3) clean coarse sand and crushed gravel ≤32mm mixing the aggregate, placing and form works, curing at least for 14-18 days and cold climate 28 days	44.90	m3		0.00
7.09	Plaster of the interior walls, outside walls and ceiling with M1:5, should be consist from (12-20) mm thick and all required activity.	159.00	m2		0.00
7.10	Providing and installation of handrail including two coat oil painting and other required activities	5.50	m		0.00
7.11	Supply and installation interior water supply and sewer system connection to the building and connection of sewer system to the septic tank complete (all fittings and pipe for sewer system all pipe should be class D best quality water supply pipe should be form PPR pipe class D, send bed , caution tap ,and also insulation of all pipes Man hole and hand hole also include in this item ) with it's all related activities and technical specification	1.00	lump sum		0.00

7.12	Supply and installation of floor type tile T=10mm min and wall type tile T=9mm min with 1:3 mortar of cement and sand T=3cm with it's all related activities according to the drawing and technical specification	80.80	m2		0.00
7.13	Supply and installation of Interior Electric system for the proposed building latrine with all (different size conduits , different wires and cable , MPD SDPBS, join box, circuit breakers different size , different switches, sockets, grounding, ventilator, fuse, fuse box, lamps and other item which complete the electric system. also 120m cable 3X12mm2 from main switch up to the terminal area and with meter machine 20/120	1.00	lump sum		0.00
7.14	Supply and installation of flat water closet complete set toilet (Komod) best quality with it's all related activities and technical specification	4.00	Set		0.00
7.15	Supply and installation of water top good quality for (Wozo khana) with it's all related activities and technical specification	4.00	Set		0.00
7.16	Supply and installation of wooden frame Doors and Windows complete with glass, painting and all related activities	18.56	m2		0.00
7.17	Roof Insulation and sealant (Ezogam), best quality.	61.10	m2		0.00
7.18	Three coats plastic painting for Interior and exterior walls ceiling and RCC ring with it's all related activities according to the drawings and technical specification	159.00	m2		0.00
7.19	Construction of RCC Septic tank with all required activity, "excavation, RCC 1:1.5:3 walls, footings and slabs, brick masonry wall 1:4, plastering work 1:4, isolation and backfilling based on the drawing and technical specification (3*2.5*3)m.	1.00	lump sum		0.00
<b>8.0</b>	<b>Construction of Semi deep well depth 50m and 8 inch diameter, activities included: digging by hummer machine "Coba" filtration, compressor, supply and installation of casing pipe 4 inch class C, supply and installation zinc pipe 1.5 inch best quality, supply and installation of Italian submersible water pump 1 inch 2-faz, supply and installation of water tank 1500 liter capacity with all required activities, supply and installation of cable and zinc wire for hanging water pump and providing a metal secure box for well. Supply and installation of one outside water tap with all activities. (See the drawings)</b>				
8.01	Digging one number Semi deep well (50m semi deep and 8 inch diameter).	50.00	m		0.00
8.02	Filtration and compressor with all required activities	1.00	lump sum		0.00
8.03	Casing PVC 4 inch, class C best quality.	51.00	M		0.00
8.04	Zinc pipe 1.5 inch in the deep well and from well to water tank and latrine system.	70.00	m		0.00
8.05	Supply and installation of electrical submersible Italian water pump 1 inch with related goods	1.00	No		0.00
8.06	Supply and Installation of plastic water tank (1500 liter capacity and insulation, piping works, over flue, valve, wash pipe, foundation work and put a tap near to well and secure metal box with all other required activities.	1.00	Each		0.00
8.07	Cable for Semi deep well water pump best quality	100.00	M		0.00
8.08	Zinc wire Cable to hang water pump	45.00	M		0.00
9.00	Branding + opening and closing ceremony	1.00	lamb sum		

**Estimated Cost of Goods and Services Provided by RAMP UP-North:**



## **V. Involvement and Leadership of Municipal Staff in Project Selection, Development, Implementation & Monitoring and Evaluation:**

The Service Delivery Advisory Group (SDAG) was invited to the Sheberghan Municipality on September 24, 2012, to identify and prioritize projects for RAMP UP-North support. The RAMP UP-North embedded advisors explained and briefed participants about the concept and sustainability requirement for the projects. After discussion among the participants and the Sheberghan Mayor, the majority of the participants along with the Mayor prioritized and selected the construction of a bus terminal as the highest priority for the Sheberghan Municipality and residents.

On November 06, 2012, after the selection of the Bus Terminal project, the mayor and municipal officials, along with SDAG members (30 men and one woman), visited the proposed area for the bus terminal and developed the Service Delivery Improvement Plan (SDIP) for the Bus Terminal Construction Project.

Municipal officials have been engaged in the development of the proposed scope of work based on the SDIP, and have also committed to being involved throughout the implementation, monitoring, and evaluation of the project. The Head of District Four, the Construction Manager, the Property Manager, and the Mayor, have been involved in the overall development of the sub-project proposal.

As part of the development of the sub-project proposal, the Mayor and the Construction Manager have also committed to monitoring and evaluating the construction phase of the Bus Terminal Project.

## **VI. Level of Public Participation**

As noted above, the SDAG selected the Bus Terminal project as a priority during a meeting held on September 24, 2012, attended by 25 people (4 women and 14 men from the SDAG, 8 men from the Public Administration Advisory Group (PAAG), 4 from civil society groups (2 men and 2 women), and the Mayor). During the follow-up meeting on November 06, 2012, SDAG, PAAG, and Project Beneficiary Group (PBG) members discussed the SDIP and proposed scope of work, with 31 people attending (27 men and 4 women). The PBG includes bus drivers and the leaders of bus agencies. During each step of the process, women representatives from the SDAG and PBG were actively consulted on project planning and design, with representatives from women's civil society groups.

The SDAG will continue to play an active role during project implementation by monitoring the Bus Terminal project and overseeing revenue collection, which will help to sustain the maintenance of the bus terminal.

## **VII. Activity Objectives**

1. Improve communication and relationships between the Mayor/municipal officials and citizens.
2. Improve the participation of citizens in decision-making processes related to the planning, design, implementation, and monitoring of municipal services.
3. Improve and increase the level of service delivery in terms of bus terminals.
4. Improve the public's perception of the municipality's ability to deliver sustainable services.
5. Increase revenue generation and the sustainability of municipal service delivery from a public private partnership to operate the bus terminal.
6. Improve public health and the cleanliness of the environment for travelers using the bus terminal.
7. Reduce traffic congestion and traffic accidents.

## **VIII. Sustainability and Maintenance:**

### **Municipality and Citizen Contribution (After Project Completion):**

The municipality and SDAG members will work together to monitor the cleanliness of the bus terminal, as well as work on public outreach activities to educate the public on the importance of sanitary behavior in the bus terminal following a consultation with project beneficiaries.

Following the completion of construction, the Sheberghan Municipality will also install and supply 2 trash bins near the shops and public latrines.

### **Revenue Enhancement:**

It is anticipated that by constructing the bus terminal, municipal revenue will increase from the following main sources:

- Through the lease of the bus terminal operations to the private sector;
- Through renting the shops in the bus terminal;
- Through leasing the latrines in the bus terminal to the private sector;
- And through leasing the restaurant/coffee shop to the private sector.

Overall, the municipality is estimated to receive **\$11,400 USD** in net revenue on an annual basis for the municipal budget as a result of this project.

**SUSTAINABILITY ANALYSIS**  
**FOR**  
**CONSTRUCTION of SHEBERGHAN MUNICIPALITY BUS TERMINAL**

<b>MONTHLY AND ANNUAL REVENUE GENERATION</b>				
<b>Description</b>	<b>Rate per user (USD)</b>	<b>Total Revenue daily (USD)</b>	<b>Total Revenue Monthly (USD)</b>	<b>Total Revenue Annually (USD)</b>
Fee for vehicle parking (10)	2.00	20	600	7,200
Monthly lease of the restaurant/coffee shop			100	1,200
Latrine user fees for 100 uses/day	0.10	10	300	3,600
Monthly lease of 8 shops			800	9,600
<b>Total Revenue Monthly and Annually (USD)</b>			<b>1,800</b>	<b>21,600</b>

<b>MONTHLY AND ANNUAL O&amp;M EXPENSES</b>					
<b>Description</b>	<b>Unit</b>	<b>Quantity (Monthly)</b>	<b>Unit Cost (USD)</b>	<b>Total Cost/Monthly (USD)</b>	<b>Total Cost/Annual (USD)</b>
Maintenance person	Person	2	100.00	200	2,400
Cleaner for the bus terminal latrine	Person	1	100.00	100	1,200
Monthly maintenance costs	LS	100	100.00	100	1,200
Maintenance costs for the latrine, supplies, black water removal and electricity	LS	250	250	250	3,000
<b>Total</b>				<b>650</b>	<b>7,800</b>

<b>REVENUE GENERATION ANALYSIS</b>				
<b>Monthly Revenue (USD)</b>	<b>Less Monthly O&amp;M Expenses (USD)</b>	<b>Less Monthly Contractor Profit (USD)</b>	<b>Municipality Monthly Net Revenue (USD)</b>	<b>Annual Municipality Net Revenue (USD)</b>
1,800	650	200	950	11,400

## **IX. Capacity Development**

The project will help to develop the capacity of municipal officials and staff by applying a learning-by-doing approach in terms of planning, implementing, monitoring, public outreach and managing of the project.

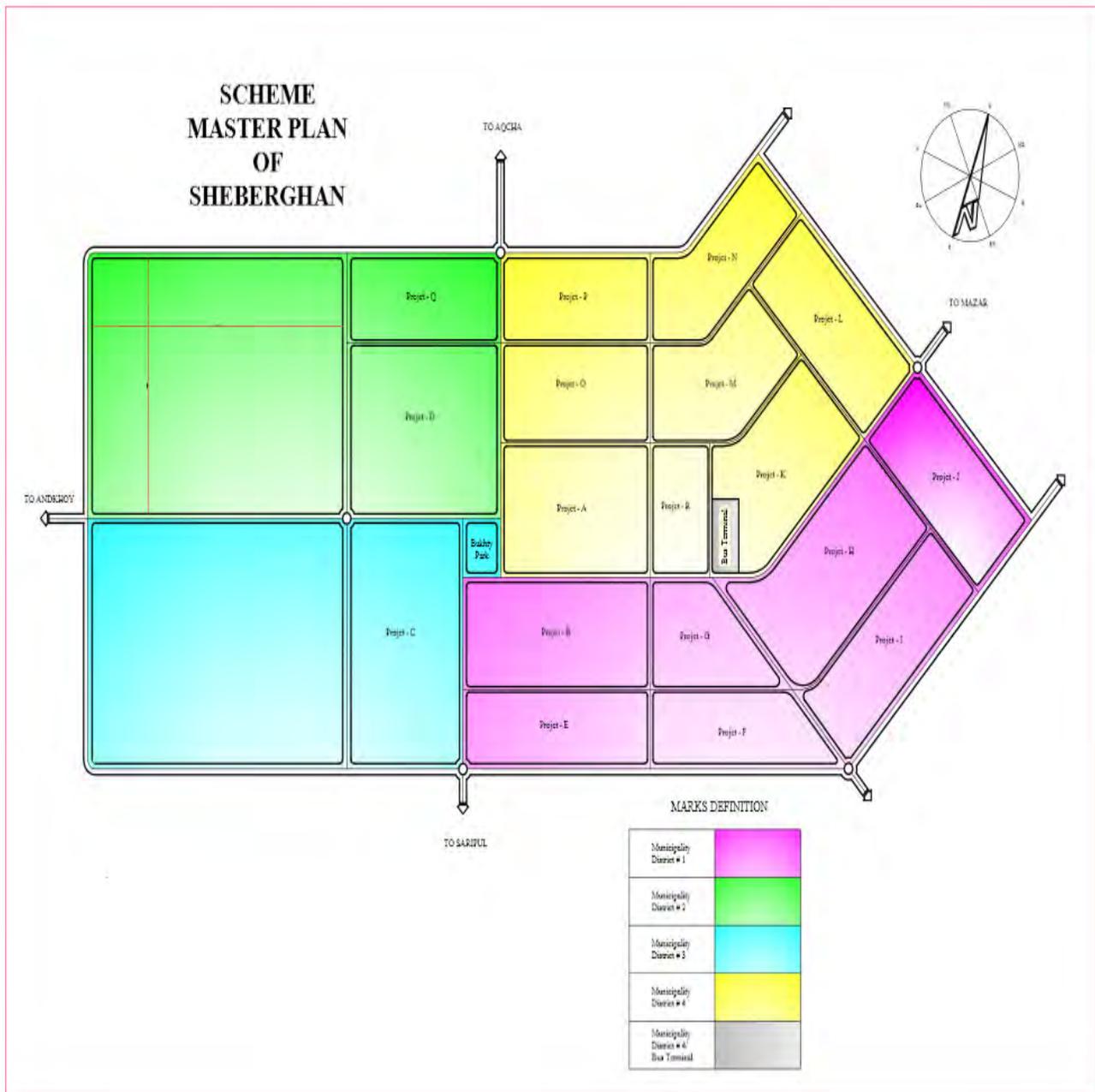
- Project management
- Project procurement
- Public works
- Project monitoring
- Public outreach, to educate the public on the importance of sanitary behavior in relation to the bus terminal

## **X. Unique Aspects of Project**

- Women and youth members of the SDAG were involved in the project identification and design process.
- The project will address traffic problems in the municipality.
- The project will have the potential for developing additional public-private partnerships.
- The construction of this bus terminal and the latrines will also improve public health and the cleanliness of the municipal environment.

# XI. Sketches

As shown in the design sketches, the proposed location for the Bus Terminal is in District 4 of Sheberghan city.



## XII. Photos – Pre-Implementation:



**XIII. Conceptual Drawings – Post-Implementation:**

