



**UNHCR**  
The UN Refugee Agency

**Afghanistan**



زنان برای زنان افغان  
ښځې د افغان ښځو لپاره  
WOMEN FOR AFGHAN WOMEN

# MINISTRY OF PUBLIC HEALTH

Department of Construction / Technical Services

Documents

Siya Cheshman BHC

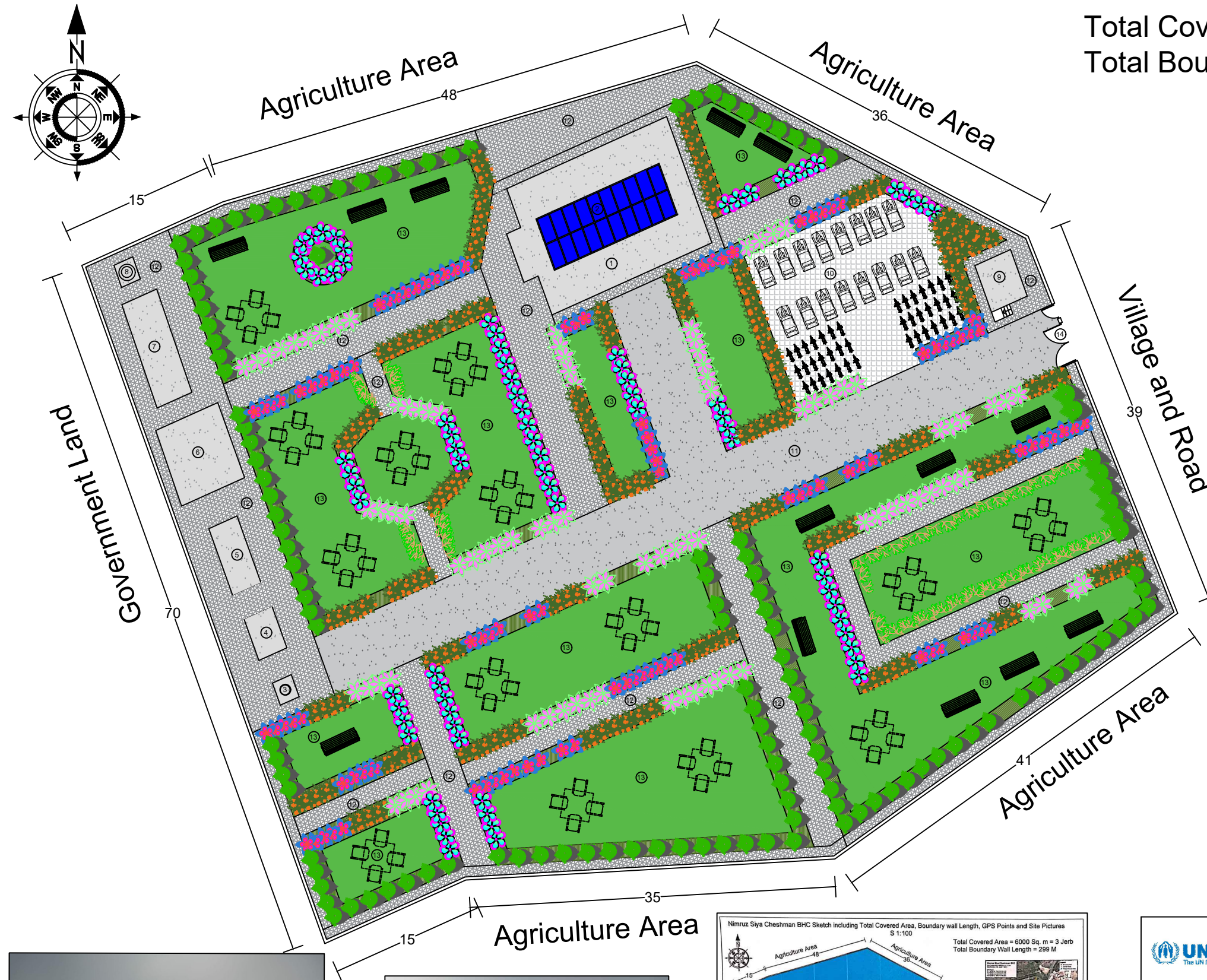
Location:

Zaranj City, Nimruz Province

ARCHITECTURE  
&  
ENGINEERING  
DESIGN

10.OCT.2022

Nimruz Siya Cheshman BHC Site Plan including Total Covered Area, Boundary wall Length, Approved Sketch and Site Pictures  
S 1:100



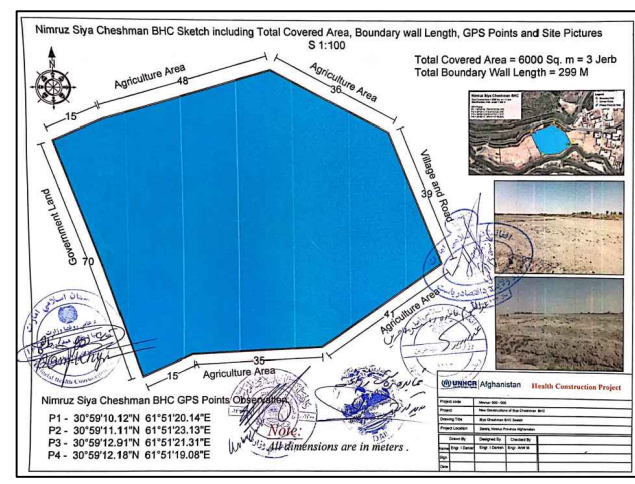
Total Covered Area = 6000 Sq. m = 3 Jerb  
Total Boundary Wall Length = 299 M


Siya Cheshman BHC Observation

- 1 - Construction of Main Building.
- 2 - Installation of Solar Panels.
- 3 - Drilling 70 M Deep Bore Well.
- 4 - Construction of Generator Room.
- 5 - Construction of Water Elevate Tank.
- 6 - Construction of 6 Pcs Toilets.
- 7 - Construction of Septic Tank.
- 8 - Construction of Garbage Collection Point.
- 9 - Construction of Guard Room.
- 10 - Construction of Parking.
- 11 - Construction of Car Way.
- 12 - Construction of Side Walk and Walk Way.
- 13 - Construction of Green Area.
- 14 - Installation of Small and Main Steel Gates

Note:

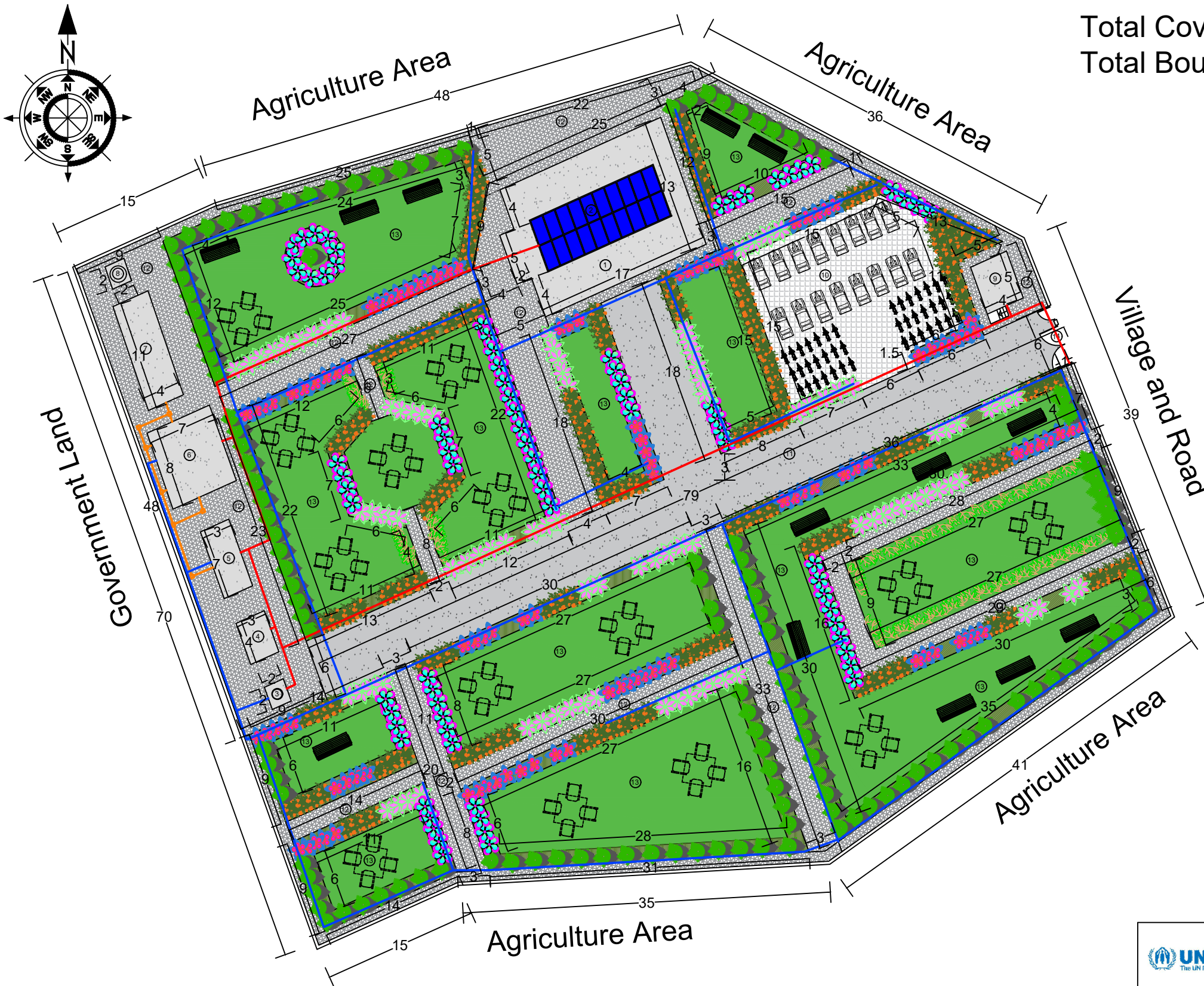
- 1-All dimension are in meters .
- 2-PCC should be (1:2:4).
- 3-Stone Masonry Ratio Should be (1:4).
- 4-Brick Masonry Ratio Should be (1:3).
- 5-RCC Concrete Ratio Should be (1:1,5:3).
- 6-All Reinforcements steel bars should not be eroded or lubricated and has to be clean.
- 7-All steel bars should be Class A .
- 8- All steel bars should be Grade 60.
- 9-The Curing of RCC Concrete should not be less then (28) days.



<div> <b>UNHCR</b> Afghanistan <b>Health Construction Project</b></div>			
Project code	Nimruz- 000 - 000		
Project	New Constructions of Siya Cheshman BHC Including Wash and Other Facilities		
Drawing Title	Siya Cheshman BHC BHC Site Plan		
Project Location	Zaranj, Nimruz Province Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M
Sign			
Date			



Nimruz Siya Cheshman BHC Site Plan including Total Covered Area, Boundary wall Length, Approved Sketch and Site Pictures  
S 1:100



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Total Boundary Wall Length = 299 M

Siya Cheshman BHC Observation


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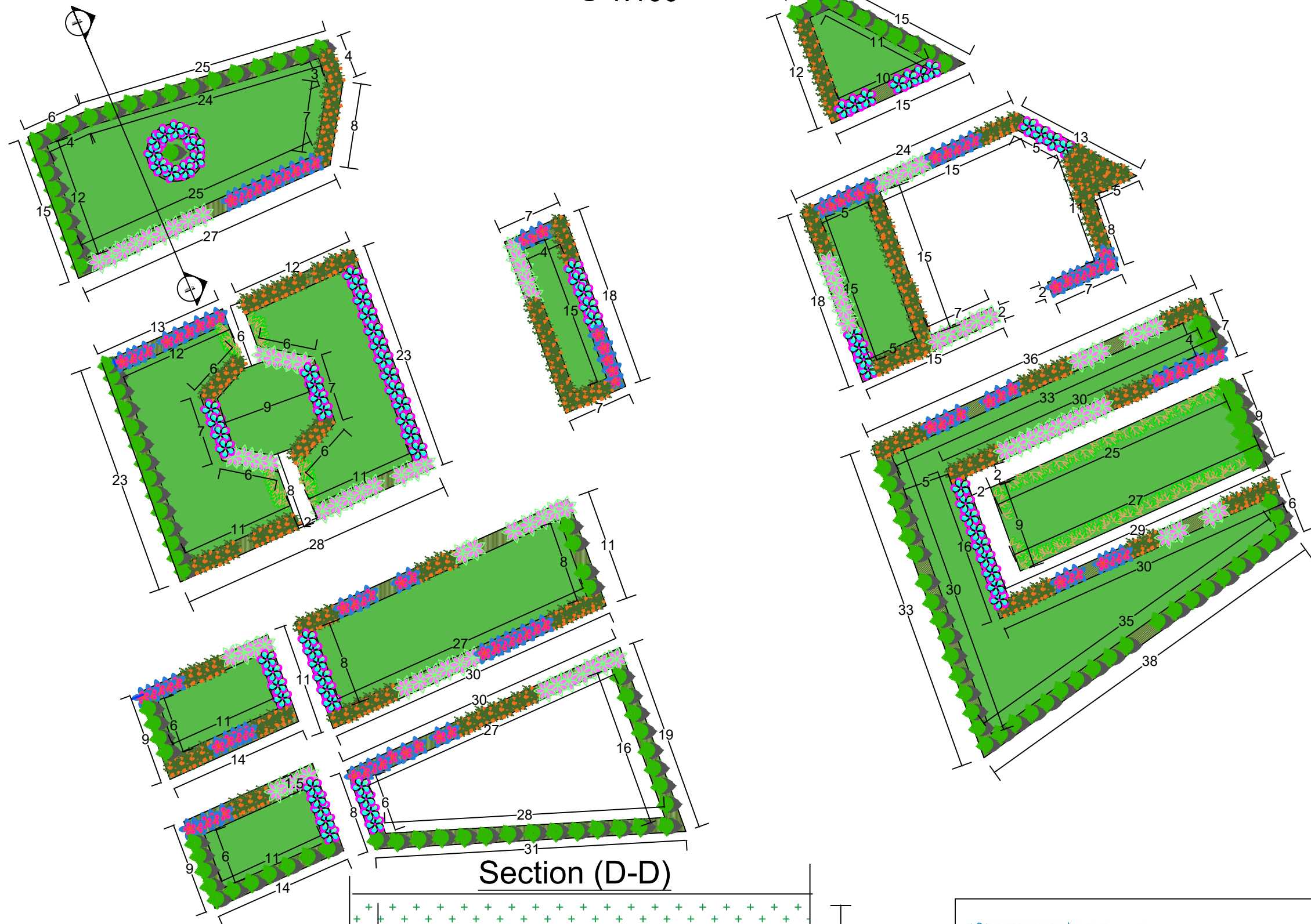
Observation Of Plumbing, Sewerage and Electrical System in Siya Cheshman BHC Site Plan

- 1 \_\_\_\_ The Red Colors Line Shows the Electrical System From Generator Room to Main Building or Other Portions.  
Total electrical conduit pipe length 42 M
- 2 \_\_\_\_ The Green Colors Line Shows the Plumbing System From Bore well to Water Elevate Tank or Other Portions.  
Total plumbing pipe length 520 M
- 3 \_\_\_\_ The Grey Colors Line Shows the Sewerage System From 6Pcs Toilets to Septic Tank.  
Total Sewerage pipe length 42 M

<div><div> <b>UNHCR</b>   Afghanistan</div><div>Health Construction Project</div></div>			
Project code	Nimruz- 000 - 000		
Project	New Constructions of Siya Cheshman BHC Including Wash and Other Facilities		
Drawing Title	Siya Cheshman BHC BHC Site Plan		
Project Location	Zaranj, Nimruz Province Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name Engr. I Danish	Engr. I Danish	Engr. Amir M	
Sign			
Date			




# Nimruz Siya Cheshman BHC Green Area Sections with Details S 1:100



Total Area = 2971 Sq. m  
 Total Excavation = 891.3 Cu. m  
 Total Agriculture soil = 891.3 Cu.m  
 Total seed = 1508 Kg/Sq. m  
 Total Trees and Flowers = 200 N

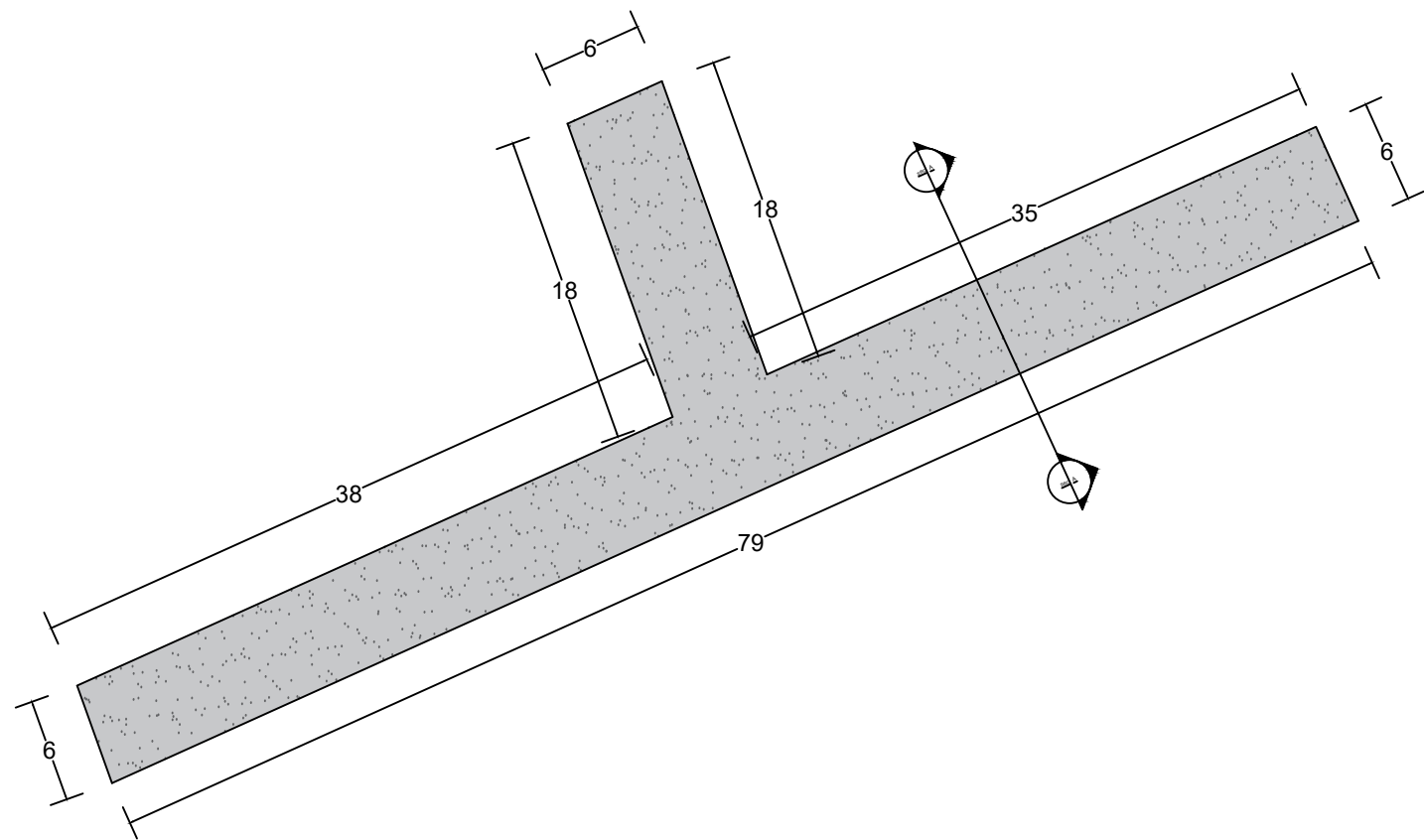
Planted Turf Seed/Grass or Trees/Flowers  
 Agriculture Soil Thickness = 300mm  
 Excavation Thickness = 300mm  
 Compacted Soil

 <b>UNHCR</b>   Afghanistan <b>Health Construction Project</b>			
Project code	Nimruz- 000 - 000		
Project	New Constructions of Siya Cheshman BHC Including Wash and Other Facilities		
Drawing Title	Siya Cheshman BHC BHC Green Area Sections With Details		
Project Location	Zaranj, Nimruz Province Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name Engr. I Danish	Engr. I Danish	Engr. Amir M	
Sign			
Date			

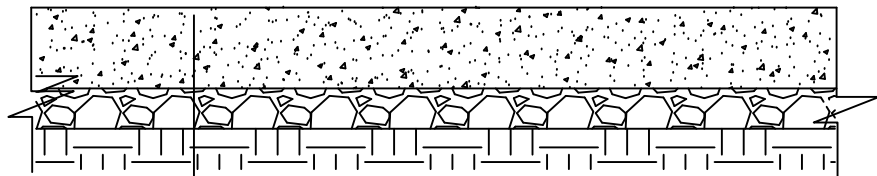


Nimruz Siya Cheshman BHC Car Way and Parking Sections with Details  
S 1:100

Plan of Car Way



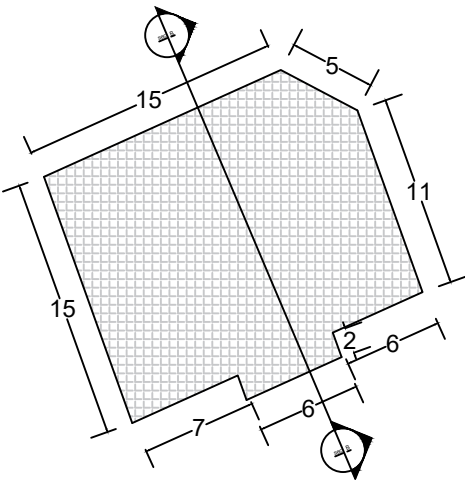
Section (A-A)



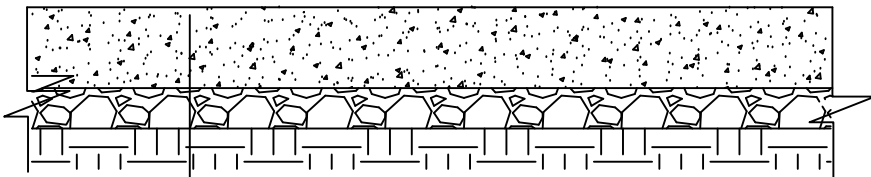
PCC M: 200 = 100mm  
Compacted Gravel = 50mm  
Compacted Soil

Total Area = 584 Sq. m  
Total site leveling = 584 Sq. m  
Total PCC = 58.4 Cu. m  
Total Graveling = 29.2 Cu. m

Plan of Side Walk and Walk Way



Section (B-B)

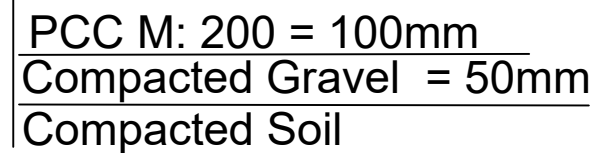



PCC M: 200 = 100mm  
Compacted Gravel = 50mm  
Compacted Soil

Total Area = 280 Sq. m  
Total site leveling = 280 Sq. m  
Total PCC = 28 Cu. m  
Total Graveling = 14 Cu. m

Project code	Nimruz- 000 - 000		
Project	New Constructions of Siya Cheshman BHC Including Wash and Other Facilities		
Drawing Title	Siya Cheshman BHC BHC Car Way and Parking Sections With Details		
Project Location	Zaranj, Nimruz Province Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M
Sign			
Date			

### Plan of Side Walk and Walk Way

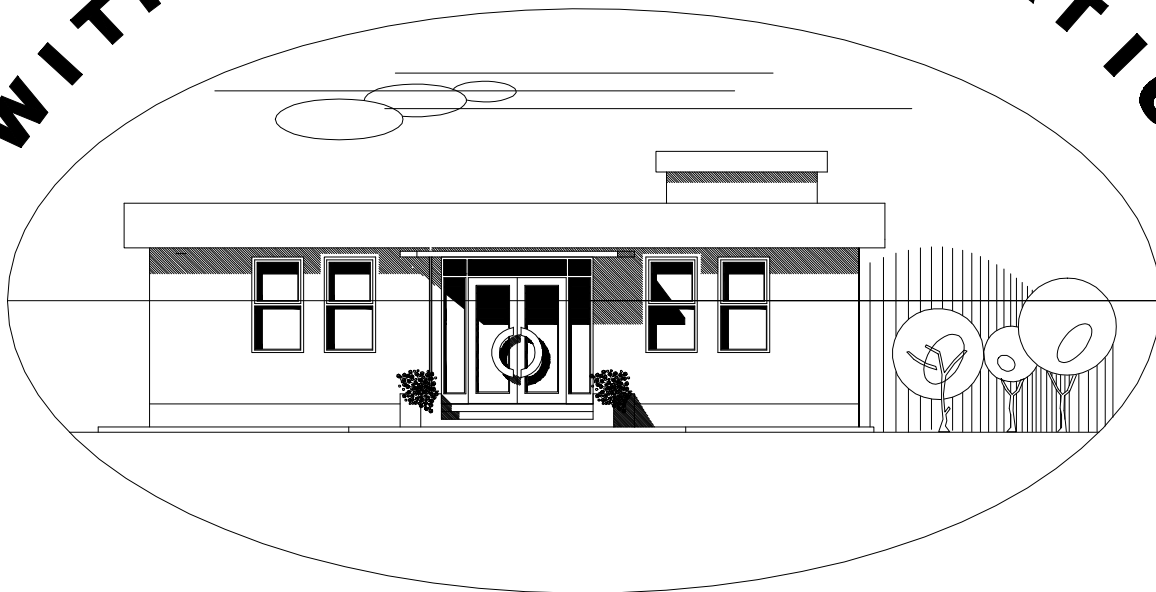


 <b>UNHCR</b> The UN Refugee Agency					<b>Afghanistan</b>		<b>Health Construction Project</b>	
Project code		Nimruz- 000 - 000						
Project		New Constructions of Siya Cheshman BHC Including Wash and Other Facilities						
Drawing Title		Siya Cheshman BHC BHC Side Walk and Walk Way Sections With Details						
Project Location		Zaranj, Nimruz Province Afghanistan						
Drawn By:		Designed By:		Checked By:				
Name	Engr. I Danish	Engr. I Danish	Engr. Amir M					
Sign								
Date								



ALL DRAWINGS FOR CONSTRUCTION

BASIC HEALTH CLINICS  
WITH THERMAL INSULATION



( ON BASIS OF INTERNATIONAL ORGANIZATION FOR MIGRATION DESIGN)


( IOM )

BaCEAG CONSULTATIVE ENGINEERING  
& ARCHITECTURAL GROUP

KABUL AFGHANISTAN


CLIENT

MINISTRY OF PUBLIC HEALTH  
ISLAMIC REPUBLIC OF AFGHANISTAN

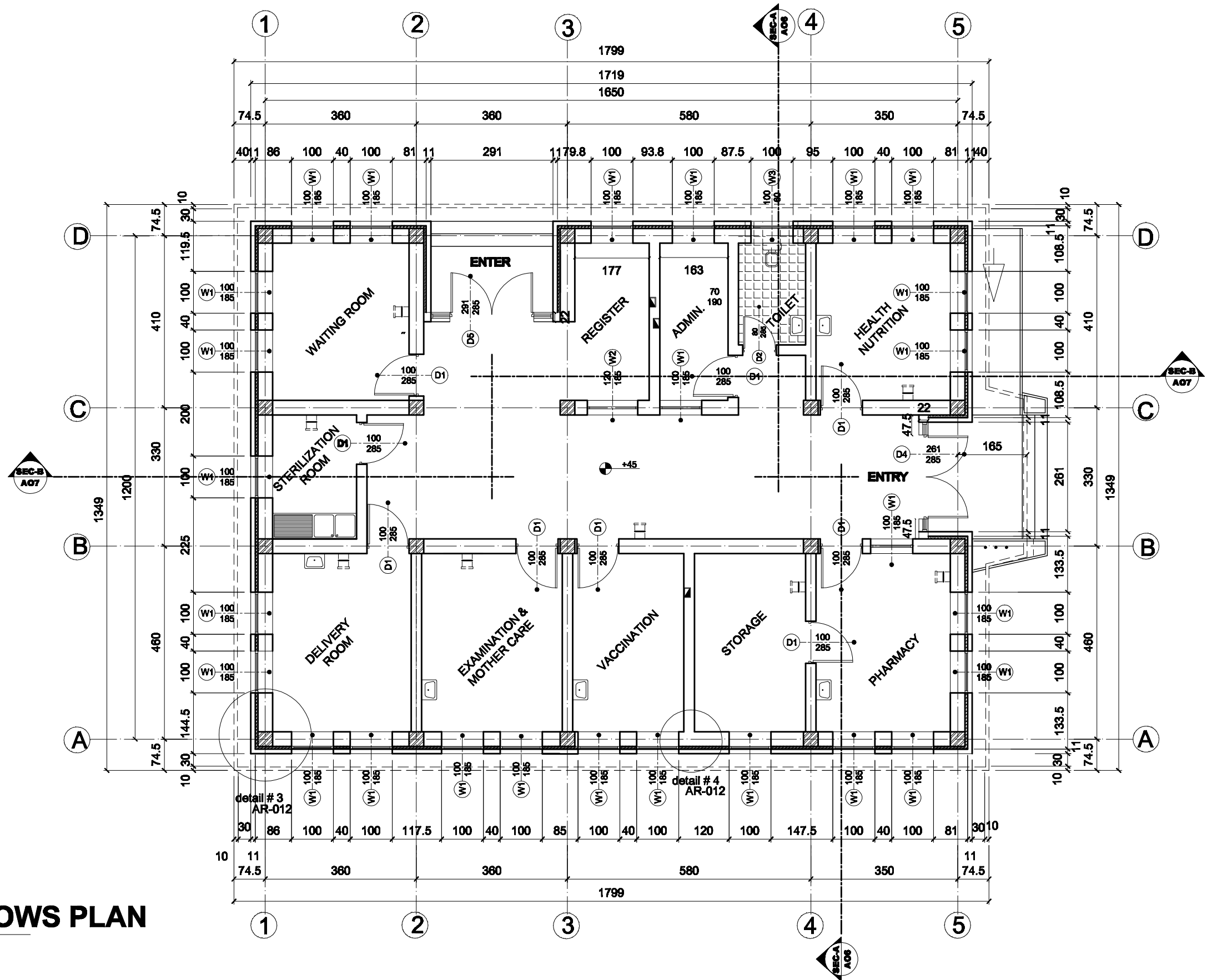
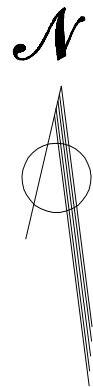
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SCALE	NTS		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008	
DRAWING NUMBER	BHC.000							DESIGNED BY	Ar.M.Saber		July-2008	
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008	
								APPROVALS				
								PROJECT MANAGER				
								PROJECT DIRECTOR				

# BHC BUILDING , LIST OF DRAWINGS

ARCHITECTURAL DRAWINGS					STRUCTURE DRAWINGS					ELECTRICAL DRAWINGS				
NO	DWG. #	DWG. NAME	SCALE	REMARKS	NO	DWG. #	DWG. NAME	SCALE	REMARKS	NO	DWG. #	DWG. NAME	SCALE	REMARKS
1	BHC.AR-000	LIST OF DRAWINGS	NTS		26	BHC.ST-001	GENERAL NOTES	NTS		54	BHC.EL-001	ELECT LIGHTING PLAN	NTS	
2	BHC.AR-001	GROUND FLOOR PLAN	1 : 100		27	BHC.ST-002	FOUNDATION PLAN	1 : 75		55	BCH.EL-002	FAN INSTALATION PLAN	NTS	
3	BHC.AR-002	DOORS AND WINDOWS PLAN	1 : 100		28	BHC.ST-003	SECTION FOR WALL FOUNDATION	1 : 25		56	BHC.EL-003	POWER PLAN	1 : 75	
4	BHC.AR-003	ROOF PLAN	1 : 100		34	BHC.ST-004	SLAB FORM WORK PLAN	1 : 75		57	BHC.EL-004	ELECT. GROUNDING PLAN	1 : 75	
5	BHC.AR-004	FRONT ELEVATION	1 : 50		35	BHC.ST-005	SLAB REINFORCEMENT PLAN	1 : 75		58	BHC.EL-005	CONDUIT & JUNCTION BOX INSTALLATION PLAN	NTS	
6	CHC.AR-005	SIDE ELEVATION	1 : 75		36	BHC.ST-006	SLAB STEEL BARS & DETAIL - Y	1 : 50,1:25		59	BCH.EL-006	GUARD ROOM WIRING PLAN	NTS	
7	BHC.AR-006	SECTION - A : A	1 : 75		37	BHC.ST-007	COLUMNS AND FOOTING	1 : 50,1:20		60	BCH.EL-007	GENERATOR ROOM LIGHTING PLAN	NTS	
8	BHC.AR-007	SECTION - B : B	1 : 75		38	BHC.ST-008	FRAME # 1	1 : 50		61	BCH.EL-008	GENERATOR ROOM POWER PLAN	NTS	
9	BHC.AR-008	DETAILS	1: 50 1: 40 1: 30		39	BHC.ST-009	SECTIONS FOR FRAME # 1	1:25		62	BCH.EL-009	POWER OUT LET INSTALATION & GROUNDING DETAILS	NTS	
10	BHC.AR-009	WALL SECTION	1: 25		40	BHC.ST-010	FRAME # 2	1:50		63	BCH.EL-010	ELECTRICAL LEGEND & LOAD DISTRIBUTION PLAN	NTS	
11	BHC.AR-010	DOOR & WINDOWS DETAILS - 1	1:35		41	BHC.ST-011	SECTIONS FOR FRAME # 2	1:25						
12	BHC.AR-011	DOOR & WINDOWS DETAILS - 2	1:35		42	BHC.ST-012	FRAME # 3 & SECTIONS	1 : 50,1:25						
13	BHC.AR-012	DETAIL FOR CONNECTION OF PROTECTION WALL	1:25		43	BHC.ST-013	FRAME # 4 & SECTIONS	1 : 50,1:25		65	BHC.WA-001	GROUND FLOOR COLD WATER SYSTM	1 : 75	
		<b>BHC GUARD ROOM</b>			44	BHC.ST-014	WALL CONNECTION DETAILS	1 : 20		66	BHC.WA-002	DRINAGE SYSTEM PLAN	1 : 75	
14	BHC.AR-012A	GUARD ROOM FLOOR PLAN	1:50		45	BHC.ST-015	STEEL BARS SCHEDULE	NTS		67	BHC.WA-003	HOT WATER SYSTEM	1 : 75	
15	BHC.AR-013	GUARD ROOM ELEVATION	1:25		46	BHC.ST-016	STEEL BARS SCHEDULE	NTS						
		<b>GENERATOR ROOM</b>					<b>BHC GUARD ROOM</b>							
16	BHC.AR-014	GENERATOR ROOM	1:40		47	BHC.ST-017	GUARD ROOM FOUNDATION PLAN	1 : 75 ,1:25		68	BHC.WA-004	SEPTIC TANK PLAN & SECTION	1 : 75	
17	BHC.AR-015	GENERATOR ROOM SECTOIN & ELEVATION	1:40 1:25 1:50		48	BHC.ST-018	GUARD ROOM FORM WORK PLAN	1 : 75 ,1:25		69	BHC.WA-005	WATER TANK	1:40	
		<b>LATRINE</b>			49	BHC.ST-019	GUARD ROOM SLAB REINFORCEMENT PLAN	1 : 75 ,1:25		70	BHC.WA-006	GROUND FLOOR ISO. SYSTEM SCHEME	1:75	
18	BHC.AR-016	LATRINE PLAN & ELEVATION	1:50							71	BHC.WA-007	DETAILS	NTS	
19	BHC.AR-017	LATRINE SECTION	1:40 1:25				<b>LATRINE</b>			72	BHC.WA-008	GROUND FLOOR ISO. WATER SUPPLY SCHEME	NTS	
20	BHC.AR-018	LATRINE DOOR & WINDOWS SCHEDULE	1:50		50	BHC.ST-020	LATRINE FORM WORK PLAN	1 : 40,1 : 25						
21		Canceled			51	BHC.ST-021	LATRINE SECTION FOR WALL & FOUNDATION PLAN	1 : 25						
22	BHC.AR-020	MAIN GATE ELEVATION	1:30		52	BHC.ST-022	LATRINE SLAB REINFORCEMENT PLAN	1 : 75						
23	BHC.AR-021	GATE PLAN	1:20				<b>GENERATOR</b>							
24	BHC.AR-022	BOUNDARY WALL JOINT PLAN & SECTION	1:10 1:15		53	BHC.ST-023	GENERATOR FOUNDATION & SLAB REINFORCEMENT PLAN	1 : 40, 1:25						
25	BHC.AR-023	BOUNDARY WALL ELEVATION	1:30											


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>	REVISIONS					INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG</b> CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0790 335 000 , 0790 304 470		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	<b>NTS</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG	July-2008					
DRAWING NUMBER	<b>BHC.000</b>							DESIGNED BY	Ar.M.Saber	July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008					
		<b>INDEX SHEET</b>						APPROVALS							
								PROJECT MANAGER							
								PROJECT DIRECTOR							

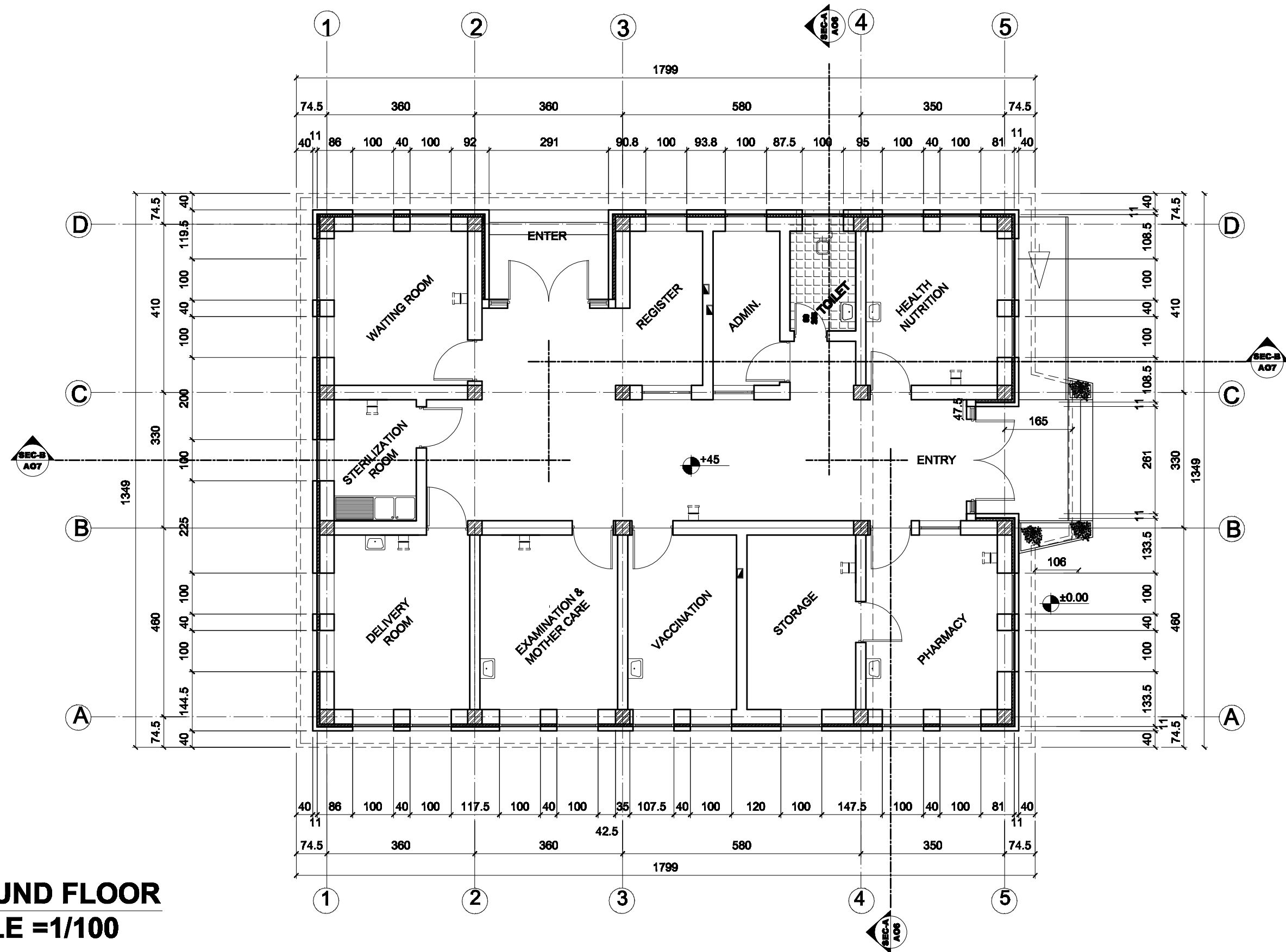





# 1 DOOR & WINDOWS PLAN

SCALE =1/100

CAD FILE		<div><div>BASIC HEALTH CLINIC ( BHC )</div><div>DOOR &amp; WINDOWS PLAN</div></div>	REVISIONS					INITL	SIG.	DATE	<div><div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div><div><div>ARCHITECT</div><div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div><div>Email: baceag@yahoo.com Mobile: 0790 335 000 , 0790 304 470</div></div><div></div><div><div>CLIENT</div><div>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</div></div><div>RECIPIENT</div></div>
SCALE	1:100		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG	July-2008	
DRAWING NUMBER	BHC.AR-002							DESIGNED BY	Ar.M.Saber	July-2008	
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008	
								APPROVALS			
								PROJECT MANAGER			
								PROJECT DIRECTOR			

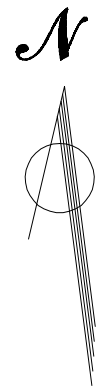
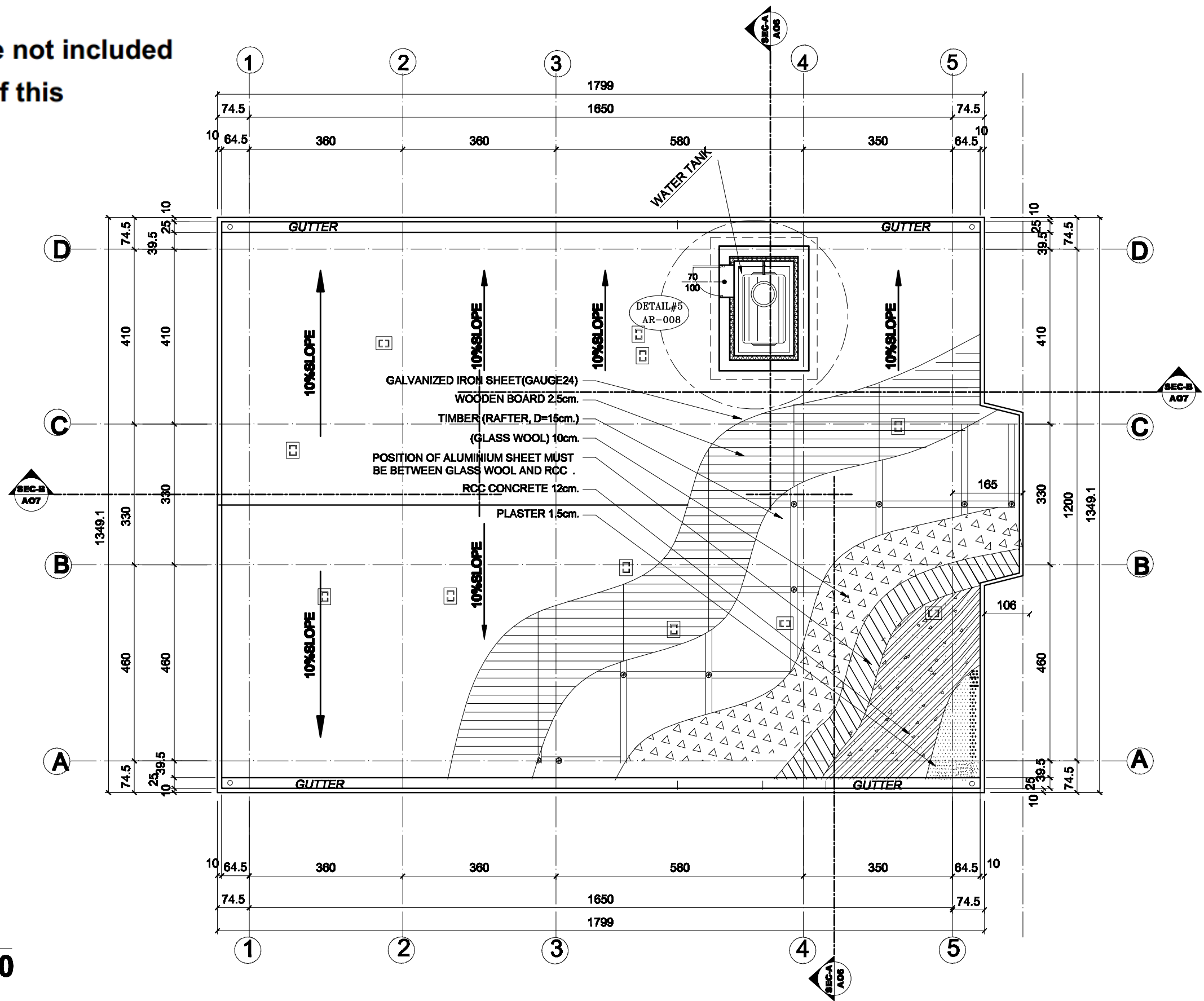


**1** GROUND FLOOR  
SCALE =1/100


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>GROUND FLOOR PLAN</b>	REVISIONS					INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0790 335 000 , 0790 304 470		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT	
SCALE	<b>1:100</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG	July-2008						
DRAWING NUMBER	<b>BHC.AR-001</b>							DESIGNED BY	Ar.M.Saber	July-2008						
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008						
								APPROVALS								
								PROJECT MANAGER								
								PROJECT DIRECTOR								



Note: Roof truss are not included  
in the all portions of this  
project




# 1 ROOF PLAN SCALE = 1/100

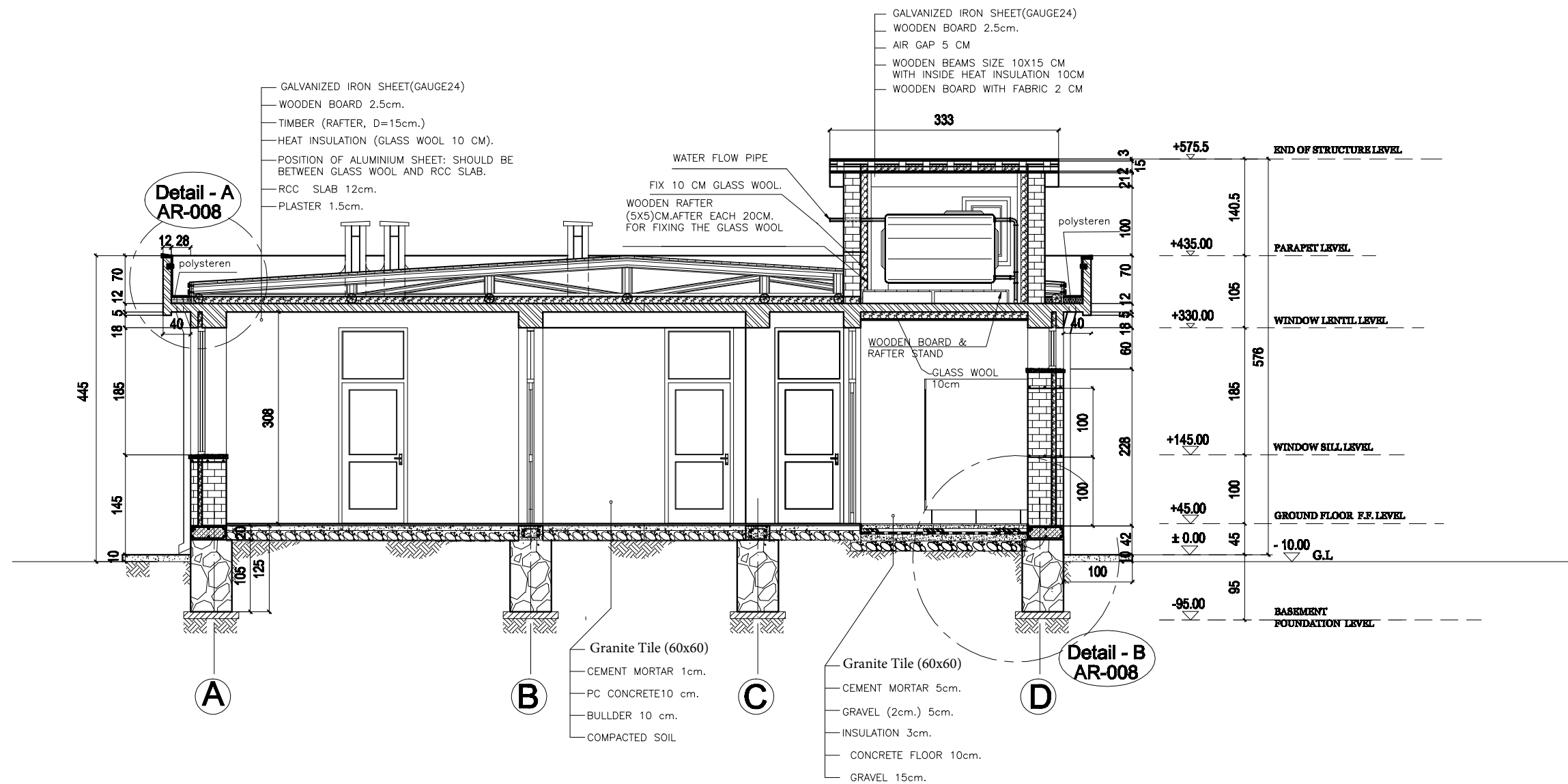
CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>ROOF PLAN</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0790 335 000 , 0790 304 470		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	<b>1:100</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	<b>BHC.AR-003</b>							DESIGNED BY	Ar.M.Saber		July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008					
								APPROVALS								
								PROJECT MANAGER								
								PROJECT DIRECTOR								



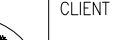
**1 FRONT ELEVATION**  
**SCALE =1/50**

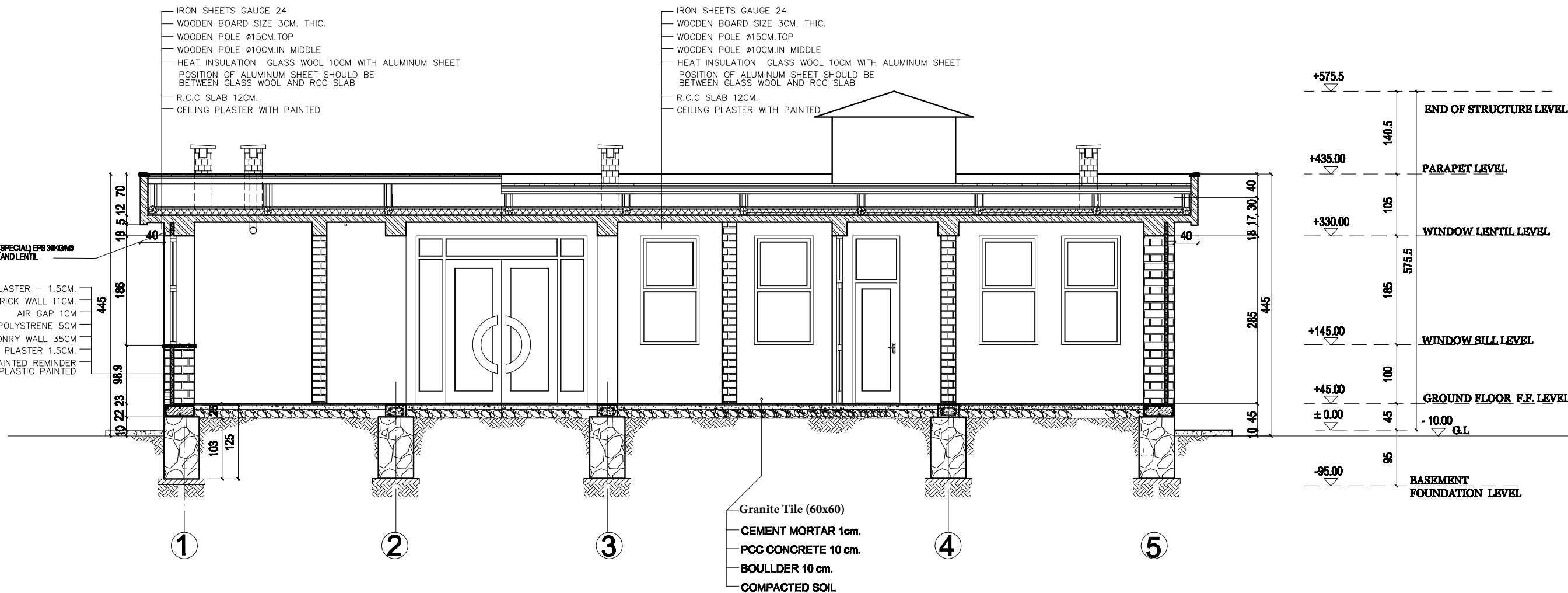
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SCALE	<b>1:50</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008								
DRAWING NUMBER	<b>BHC.AR-004</b>							DESIGNED BY	Ar.M.Saber		July-2008								
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008								
								APPROVALS											
							PROJECT MANAGER												
							PROJECT DIRECTOR												






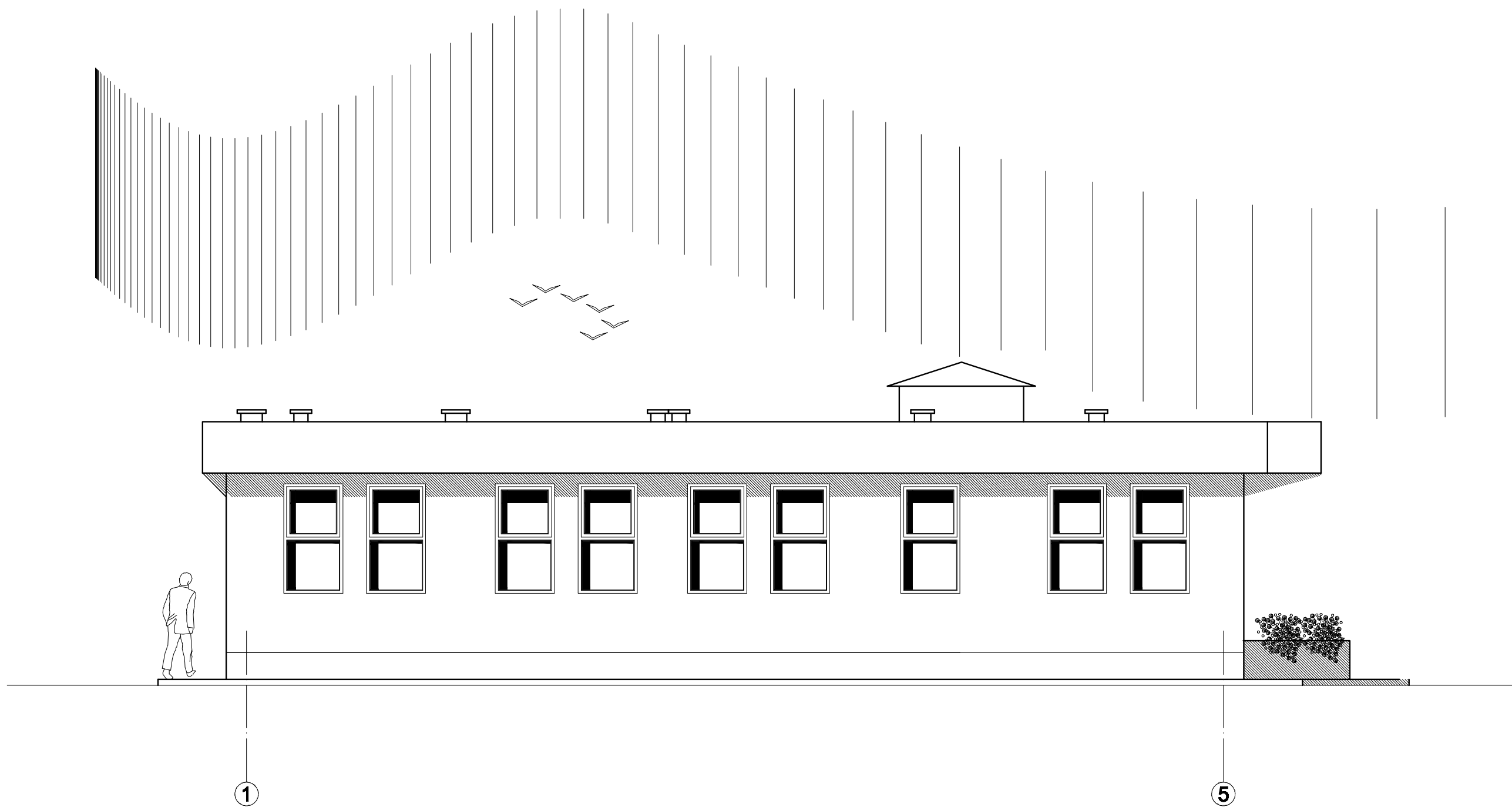
# 1 SECTION (A-A) SCALE =1/75

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>SECTION A-A</b>	REVISIONS					INITL	SIG.	DATE	<b>BASIC HEALTH  CLINIC ( BHC )  KABUL - AFGHANISTAN</b>	ARCHITECT	 <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baceag@yahoo.com Mobile: 0799 335 686 , 0799 304 476	CLIENT	<b>MINISTRY OF PUBLIC HEALTH  AFGHANISTAN</b>	RECIPIENT
SCALE	<b>1:75</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG	July-2008						
DRAWING NUMBER	<b>BHC.AR-006</b>							DESIGNED BY	Ar.M.Saber	July-2008						
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008						
								APPROVALS								
							PROJECT MANAGER									
							PROJECT DIRECTOR									




# 1 SECTION (B-B) SCALE =1/75

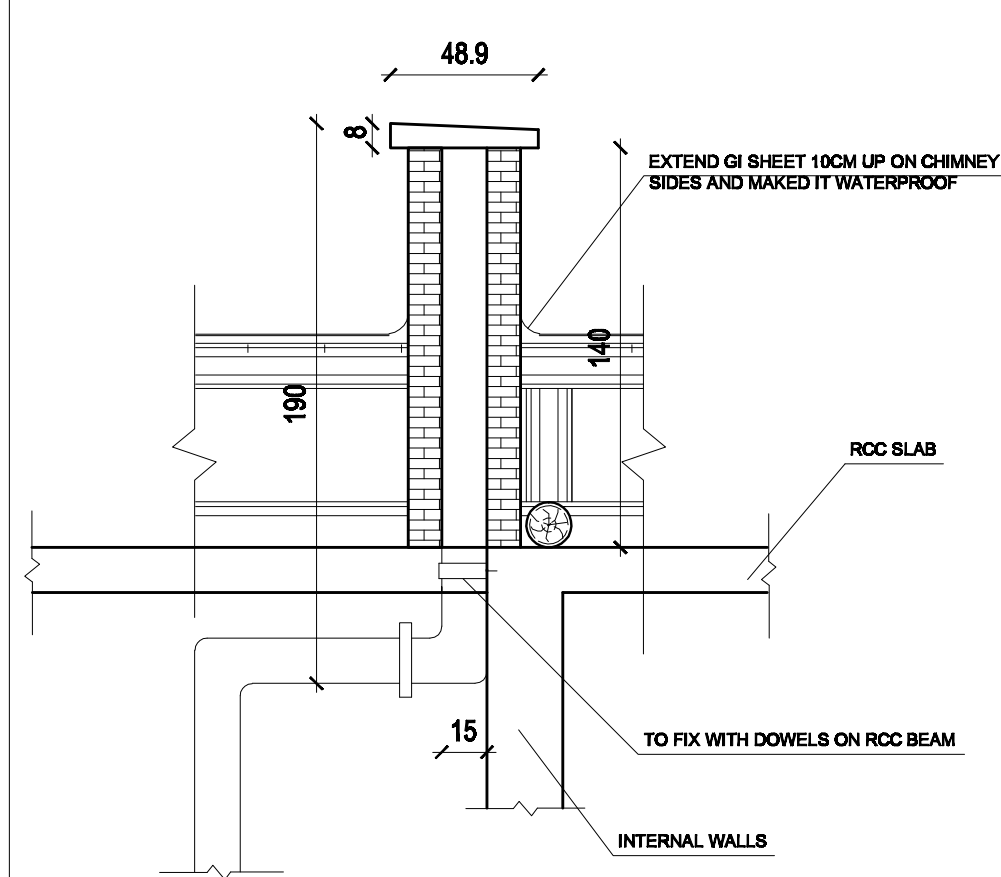
CAD FILE		<div><div><b>BASIC HEALTH CLINIC ( BHC )</b></div><div><b>SECTION B-B</b></div></div>	REVISIONS						INITL	SIG.	DATE	<div><div><b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b></div><div><div>ARCHITECT</div><div><b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b></div><div><div>Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a></div><div>Mobile: 0799 336 686 , 0799 304 476</div></div><div></div></div><div><b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b></div></div> <td rowspan="7">RECIPIENT</td>	RECIPIENT
NO.	REVISION		NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008				
						DESIGNED BY	Ar.M.Saber		July-2008				
						CHECKED BY	Eng.A.Karim		July-2008				
						APPROVALS							
						PROJECT MANAGER							
						PROJECT DIRECTOR							



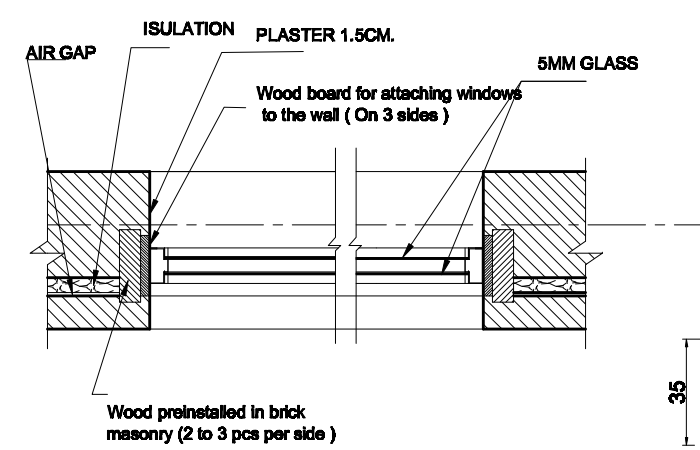
**1** **SIDE ELEVATION**  
**SCALE =1/75**

CAD FILE		<div><div>BASIC HEALTH CLINIC ( BHC )</div><div>SIDE ELEVATION</div></div>	REVISIONS						INITL	SIG.	DATE	<div><div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div></div>	ARCHITECT	<div><div></div><div><b>BaCEAG</b> CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0799 336 686 , 0799 304 476</div></div>	CLIENT	<div><div>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</div></div>	RECIPIENT
SCALE	1:75		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008						
DRAWING NUMBER	BHC.AR-005							DESIGNED BY	Ar.M.Saber		July-2008						
								CHECKED BY	Eng.A.Karim		July-2008						
								APPROVALS									
PROJECT NUMBER								PROJECT MANAGER									
							PROJECT DIRECTOR										

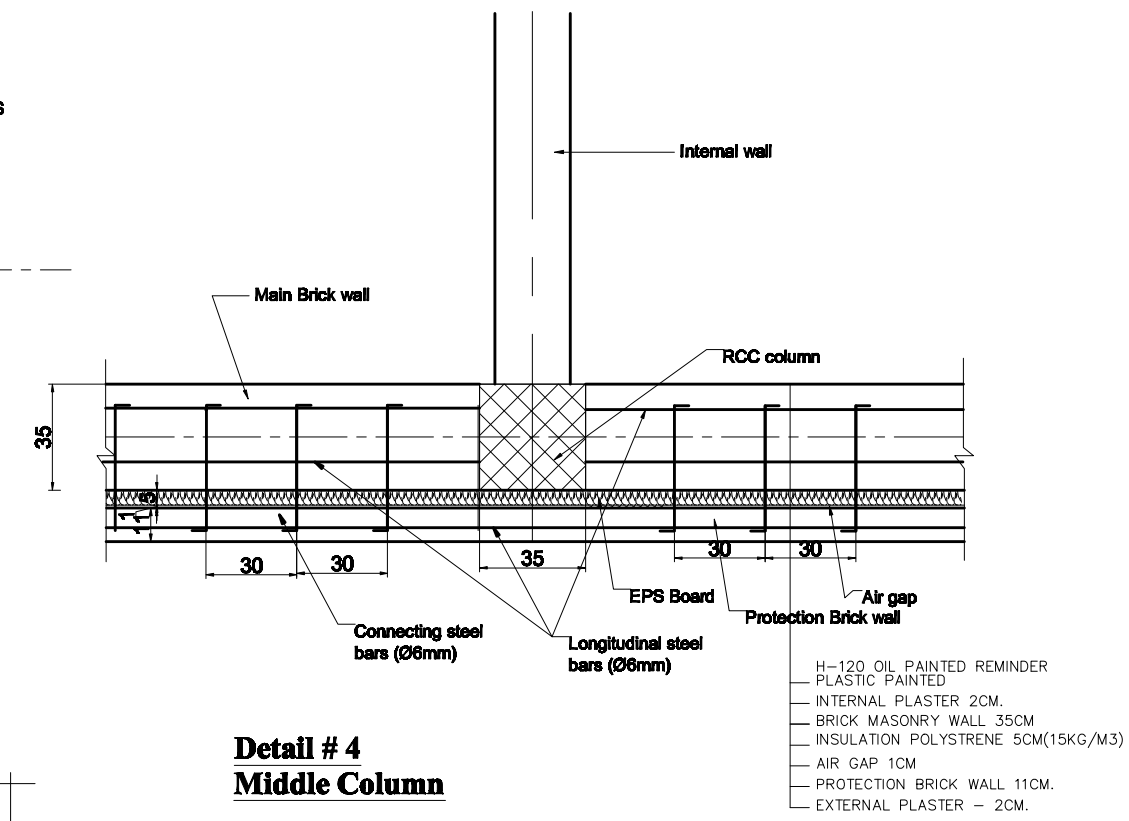




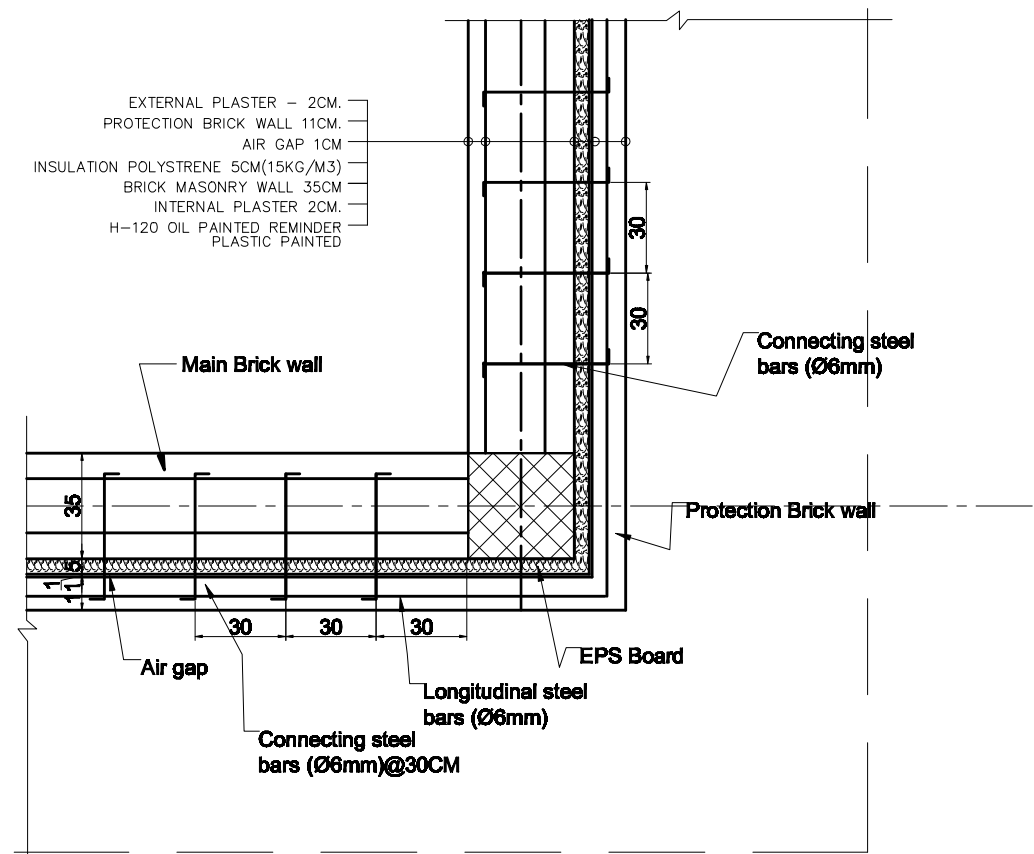
**CHIMNEY DETAIL UNDER CEILING  
D #5**



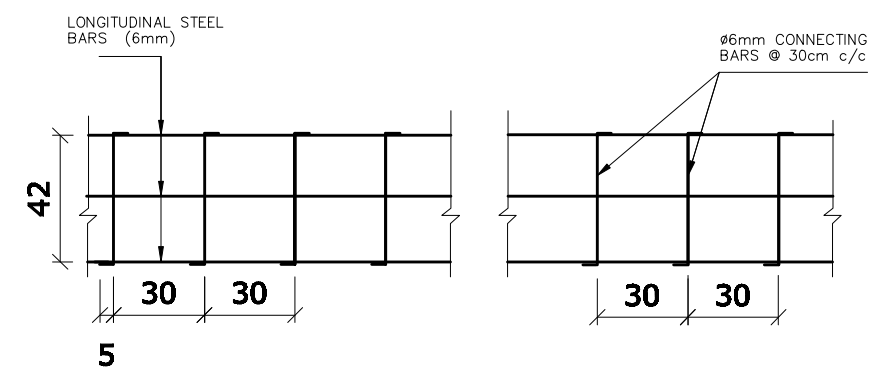
**Details #1  
Windows Installation**




**Detail #4  
Middle Column**




**Detail #3  
Corner Column**

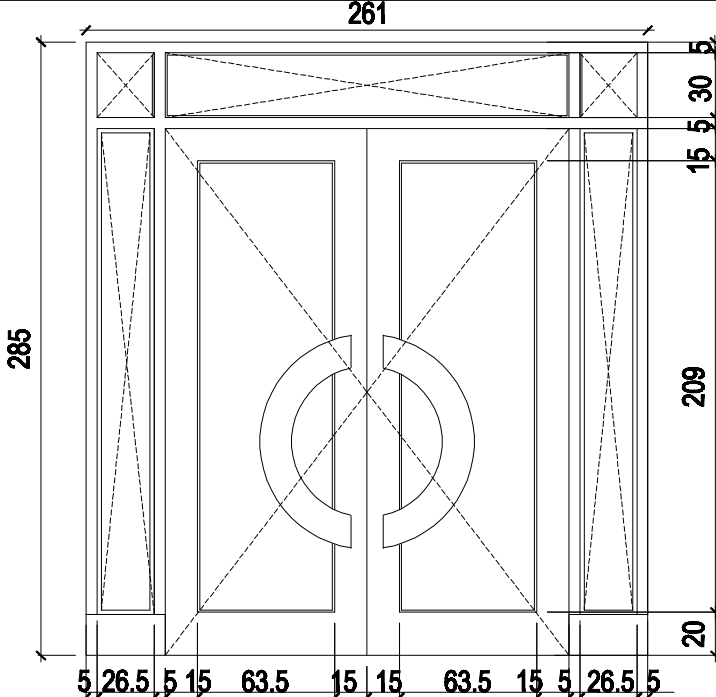
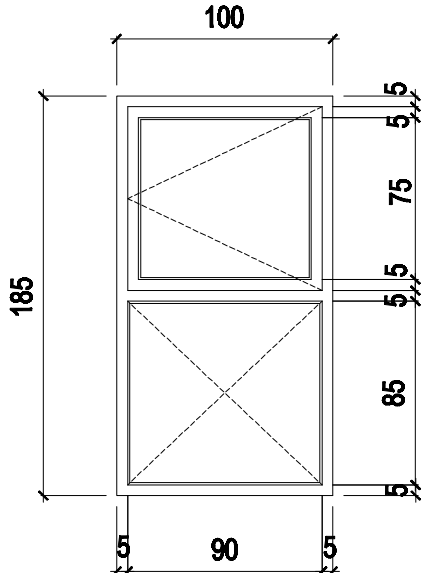
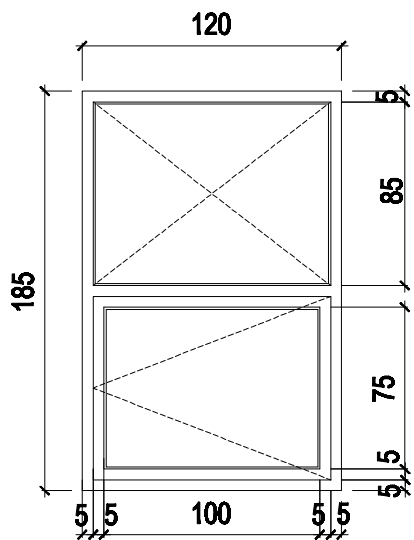
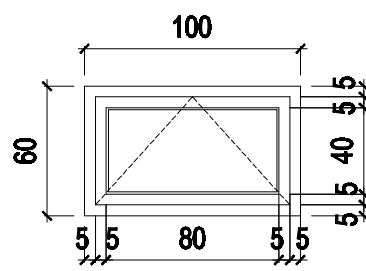



**Detail #1  
Connection Steel Bars Structure**

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  Details for conection of protectoin Wall and steel bars	REVISIONS						INTL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT	 <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: hceag@yahoo.com Mobile: 0700 225 000 , 0700 204 470	CLIENT	<b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	1:50		NO.	REVISION	NAME	INTL	DATE	PRODUCED BY	BaCEAG		July-2008						
DRAWING NUMBER	BHC.AR-012							DESIGNED BY	Ar.M.Saber		July-2008						
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008						
								APPROVALS									
							PROJECT MANAGER										
							PROJECT DIRECTOR										




CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>Details</b>	REVISIONS					INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	<b>ARCHITECT</b> <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  <b>CLIENT</b> <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b> <b>RECIPIENT</b>
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DRAWING NUMBER	BHC.AR-008							DESIGNED BY	Ar.M.Saber	July-2008		
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008		
								APPROVALS				
							PROJECT MANAGER					
							PROJECT DIRECTOR					

CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION		CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION	
	W	H						W	H				
D4	261	285	1	*P.V.C FRAME  *FIXED WINDOW  *P.V.C DOOR  * 5mm. THICK. DOUBLE GLASS LIGHTING PANEL  *DOOR HOLDERS			W1	100	185	26	*P.V.C FRAME  *FIXED WINDOWS  *OPEN WINDOW  *5mm. DOUBLE GLASS		
CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION		CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION	
	W	H						W	H				
W2	120	185	1	*P.V.C FRAME  *FIXED WINDOWS  *OPEN WINDOW  *5mm. DOUBLE GLASS			W3	100	60	1	*P.V.C FRAME  *OPEN WINDOW  *5mm THICK. DOUBLE GLASS		

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>	REVISIONS				INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b> <small>Email: baceag@yahoo.com Mobile: 0700 335 066 , 0700 304 476</small>		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	<b>1:35</b>		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG					
DRAWING NUMBER	<b>BHC.AR-011</b>							DESIGNED BY	Ar.M.Saber					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim					
		<b>DOOR &amp; WINDOWS DETAILS 2</b>						APPROVALS						
								PROJECT MANAGER						
								PROJECT DIRECTOR						

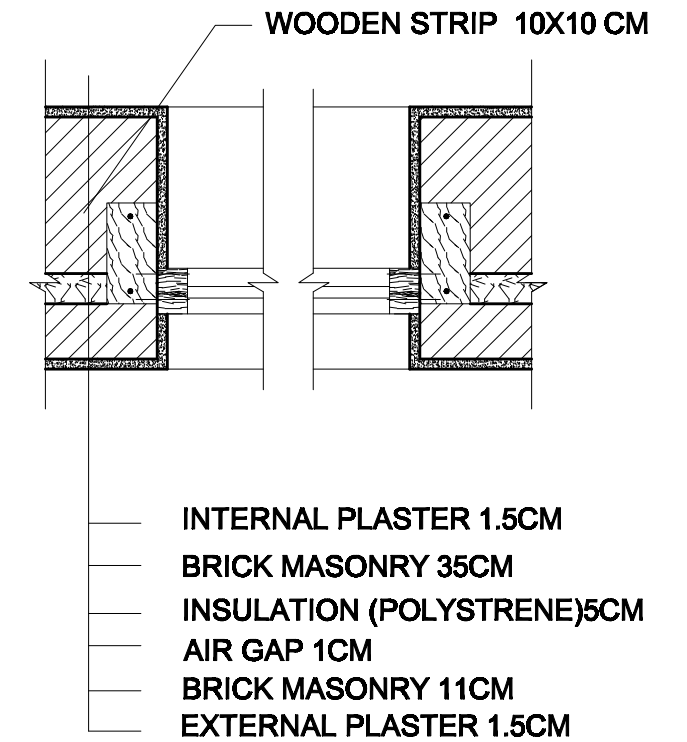
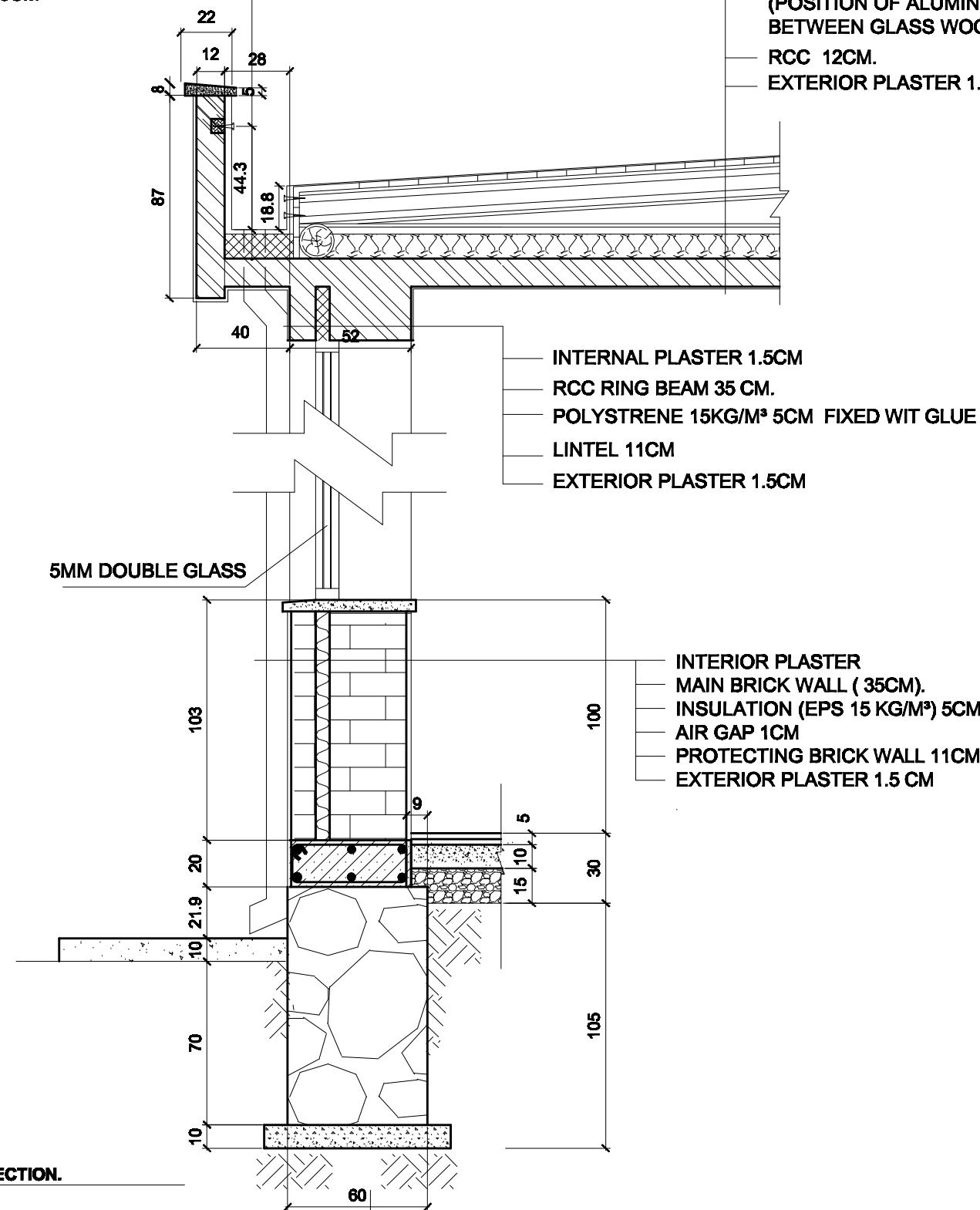
CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION	CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION
	W	H					W	H			
D1	100	285	9	<div><div>*P.V.C FRAME</div><div>*P.V.C DOOR</div><div>*5mm THICK. DOUBLE GLASS LIGHTING PANEL</div><div>*DOOR HOLDER</div></div>		D2	80	285	1	<div><div>*P.V.C FRAME</div><div>*P.V.C DOOR</div><div>*5mm THICK. DOUBLE GLASS LIGHTING PANEL</div><div>*DOOR HOLDER</div></div>	
CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION	CODE	STRUCTURAL OPEN		NO	SPECS.	DIMENSION
	W	H				W	H				
						D5	291	285	1	<div><div>*P.V.C FRAME</div><div>*FIXED WINDOW</div><div>*P.V.C DOOR</div><div>* 5mm. THICK. DOUBLE GALSS LIGHTING PANEL</div><div>*DOOR HOLDERS</div></div>	

CAD FILE		<div><div>BASIC HEALTH CLINIC ( BHC )</div><div>DOORS DETAILS 1</div></div>	REVISIONS					INITIAL	SIG.	DATE	<div><div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div><div><div>ARCHITECT</div><div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div><div>Email: baceag@yahoo.com Mobile: 0799 335 665 , 0799 304 476</div></div><div></div><div><div>CLIENT</div><div>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</div></div><div>RECIPIENT</div></div>
SCALE	1:35		NO.	REVISION	NAME	INITIAL	DATE	PRODUCED BY	BaCEAG	July-2008	
DRAWING NUMBER	BHC.AR-010							DESIGNED BY	Ar.M.Saber	July-2008	
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008	
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							PROJECT MANAGER				
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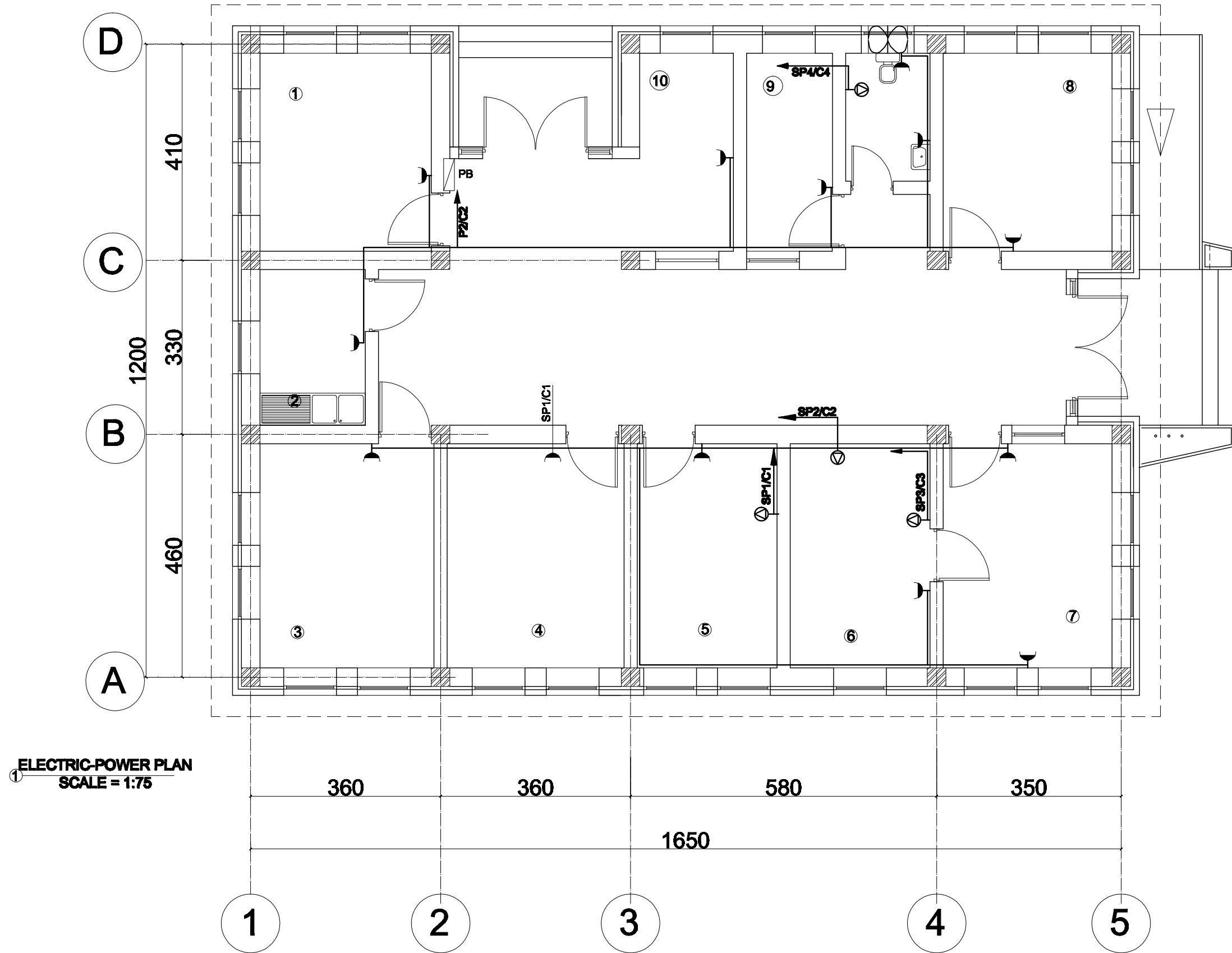
GI SHEET G 24  
POLYSTEREN (30-40 KG/M³) 10CM  
RCC SLAB  
PLASTER 1.5CM


GALVANIZED IRON SHEET(GAUGE24)  
WOODEN BOARD 2.5CM.  
TIMBER (RAFTER, D=15CM.)  
HEAT INSULATION (GLASS WOOL 10 CM).  
(POSITION OF ALUMINIUM SHEET MUST BE  
BETWEEN GLASS WOOL AND RCC)  
RCC 12CM.  
EXTERIOR PLASTER 1.5 CM.

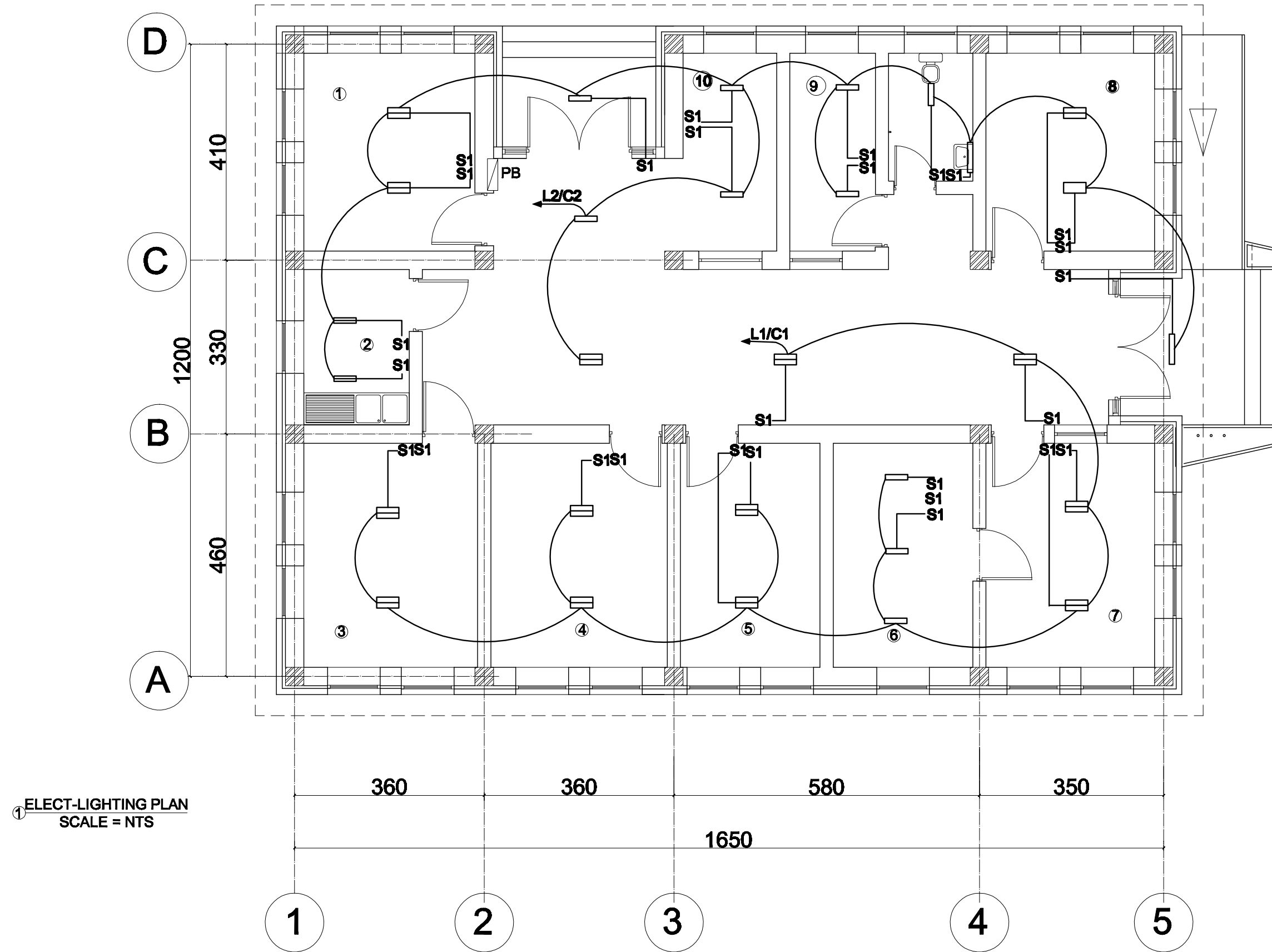


3 DETAIL FOR WALL SECTION.  
SCALE =1/25


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>WALL SECTION</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH  CLINIC ( BHC )  KABUL - AFGHANISTAN</b>	ARCHITECT  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0790 335 606 , 0790 304 476		CLIENT  <b>MINISTRY OF PUBLIC HEALTH  AFGHANISTAN</b>	RECIPIENT
SCALE	<b>1:25</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	<b>BHC.AR-009</b>							DESIGNED BY	Ar.M.Saber		July-2008					
PROJECT NUMBER							CHECKED BY	Eng.A.Karim		July-2008						
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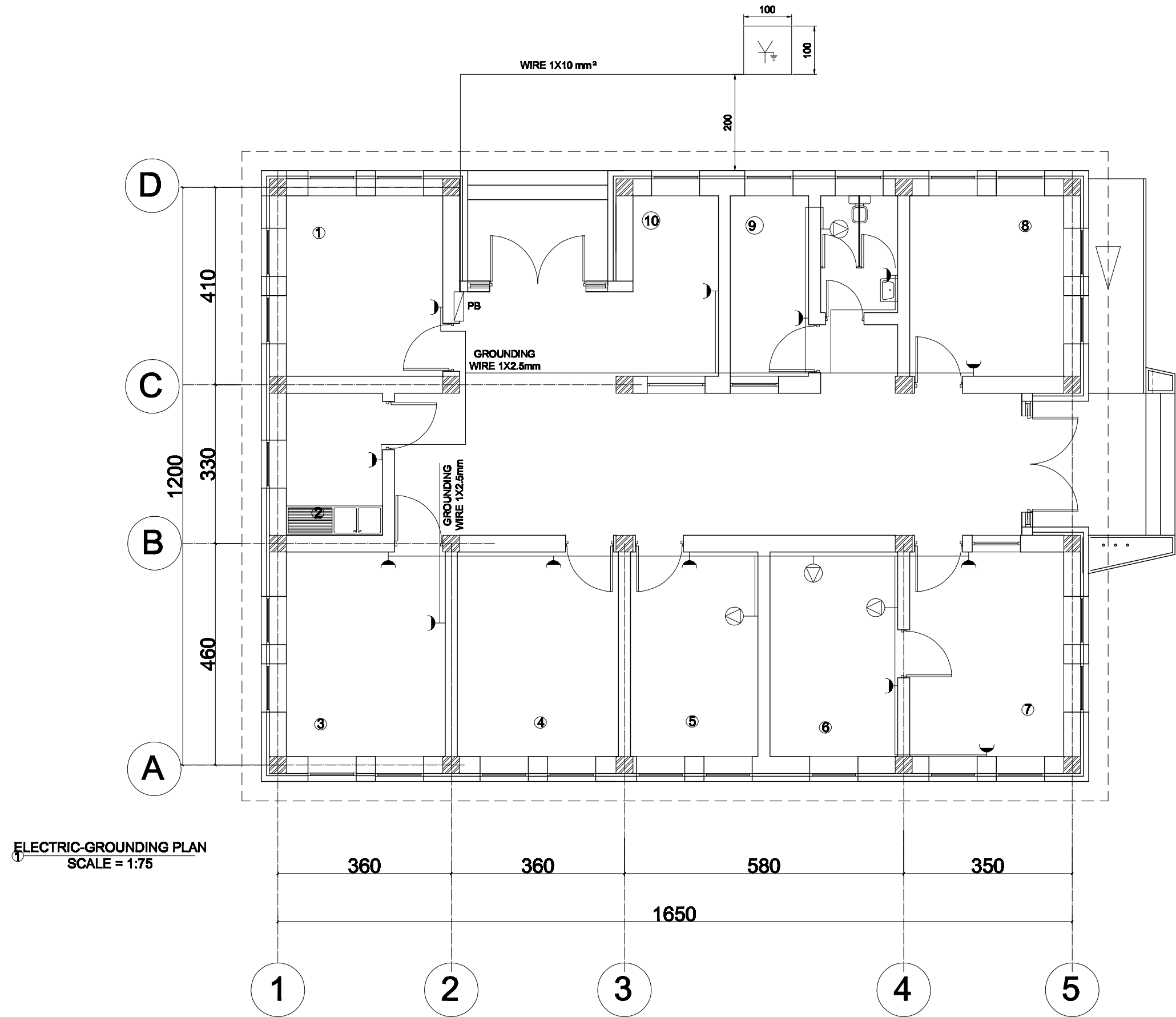



CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>POWER PLAN</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT	 <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0790 335 000 , 0790 304 470	CLIENT	<b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	<b>1:75</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BoCEAG		July-2008						
DRAWING NUMBER	<b>BHC.EL-003</b>							DESIGNED BY	Eng.M.Anwar		July-2008						
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008						
								APPROVALS									
							PROJECT MANAGER										
							PROJECT DIRECTOR										



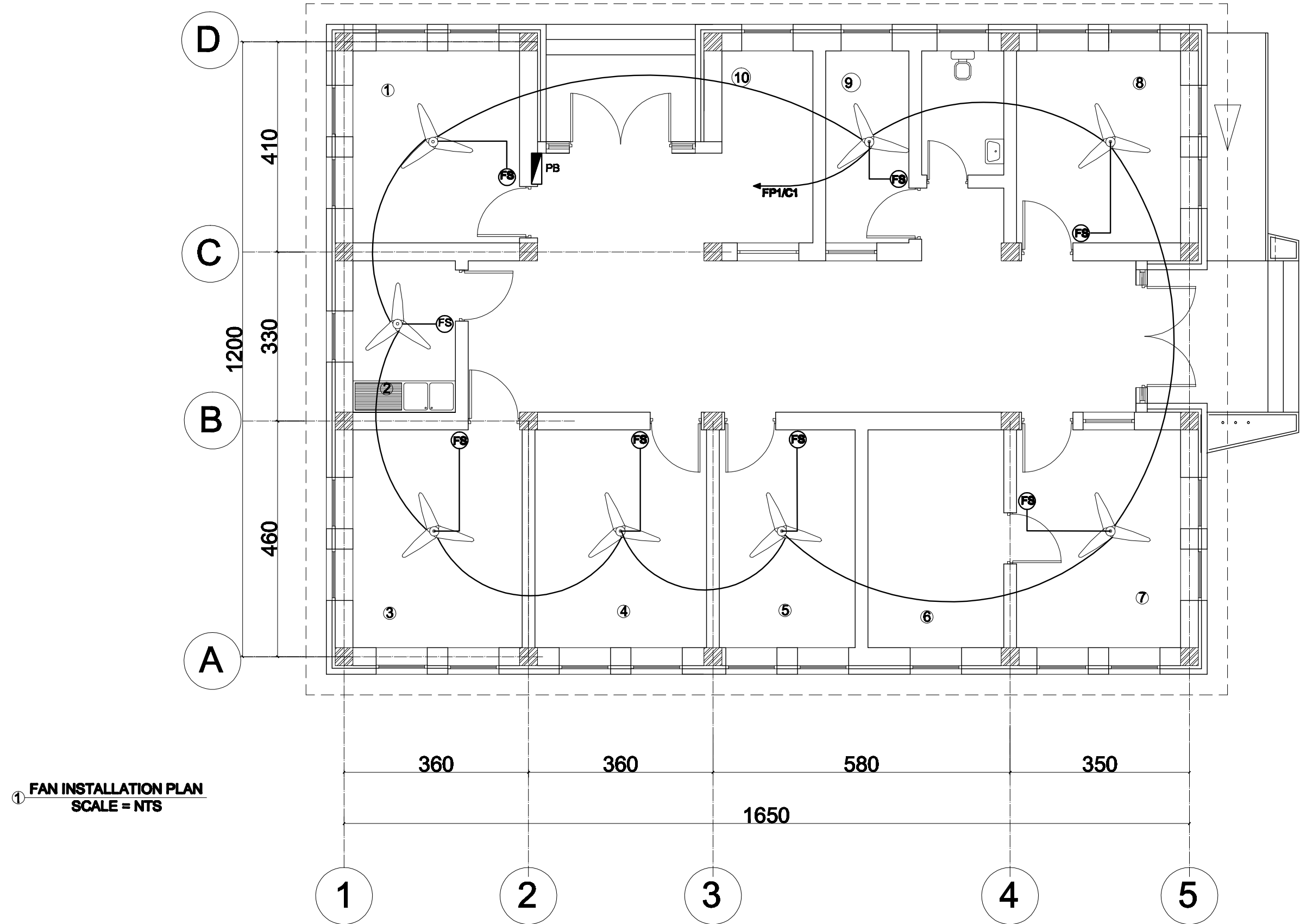
① ELECT-LIGHTING PLAN  
SCALE = NTS


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>ELEC, LIGHTING PLAN</b>	REVISIONS					INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baceag@yahoo.com Mobile: 0790 335 808 , 0790 304 476		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT		
SCALE	<b>NTS</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG	July-2008							
DRAWING NUMBER	<b>BHC.EL-001</b>							DESIGNED BY	Eng.M.Anwar	July-2008							
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008							
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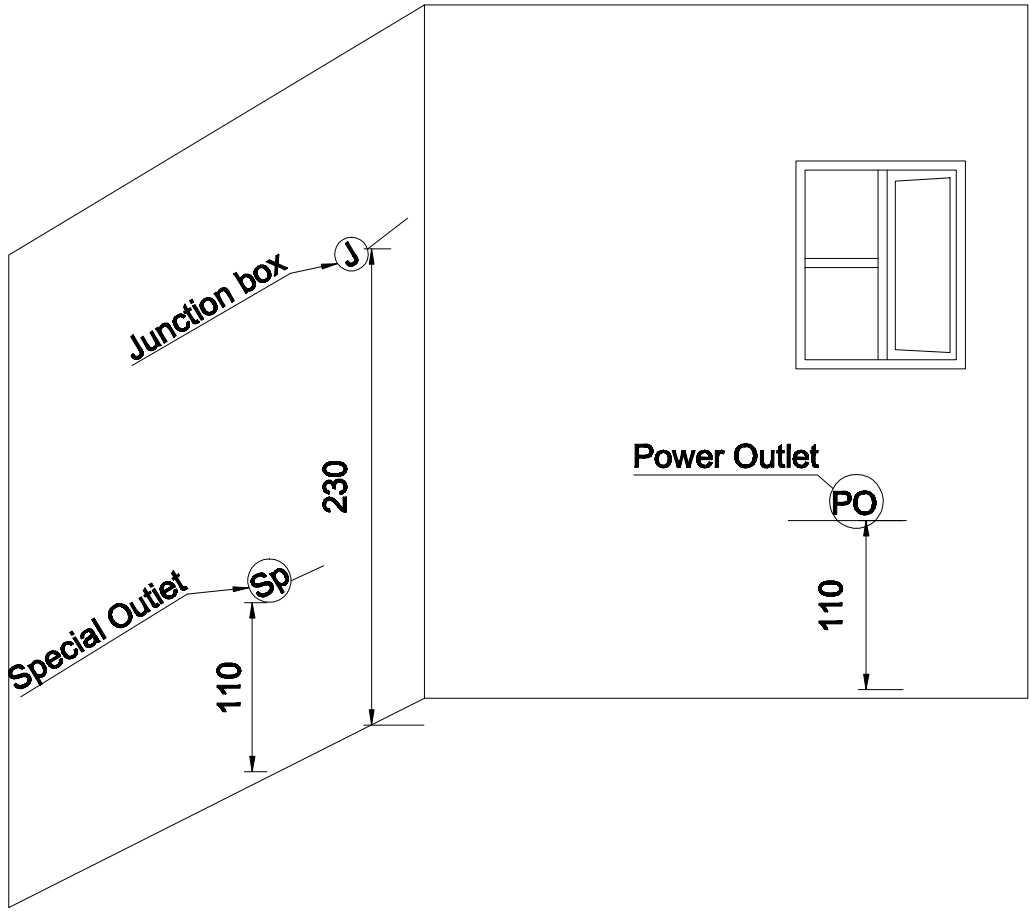
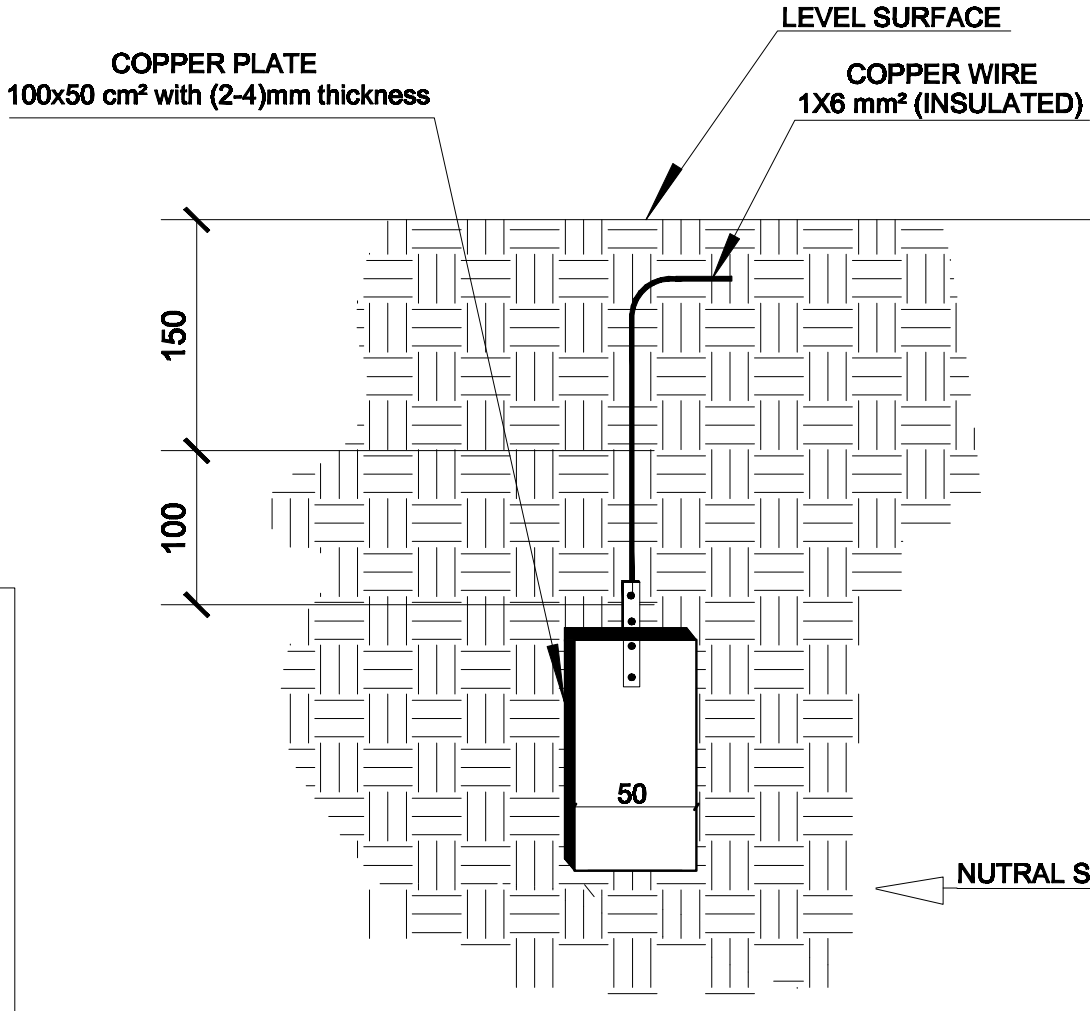
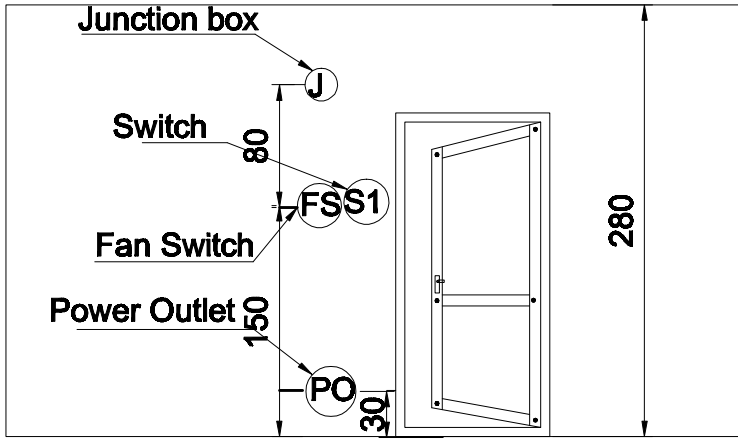


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>ELEC. GROUNDING PLAN</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT		
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DRAWING NUMBER	<b>BHC.EL-004</b>							DESIGNED BY	Eng.M.Anwar		July-2008							
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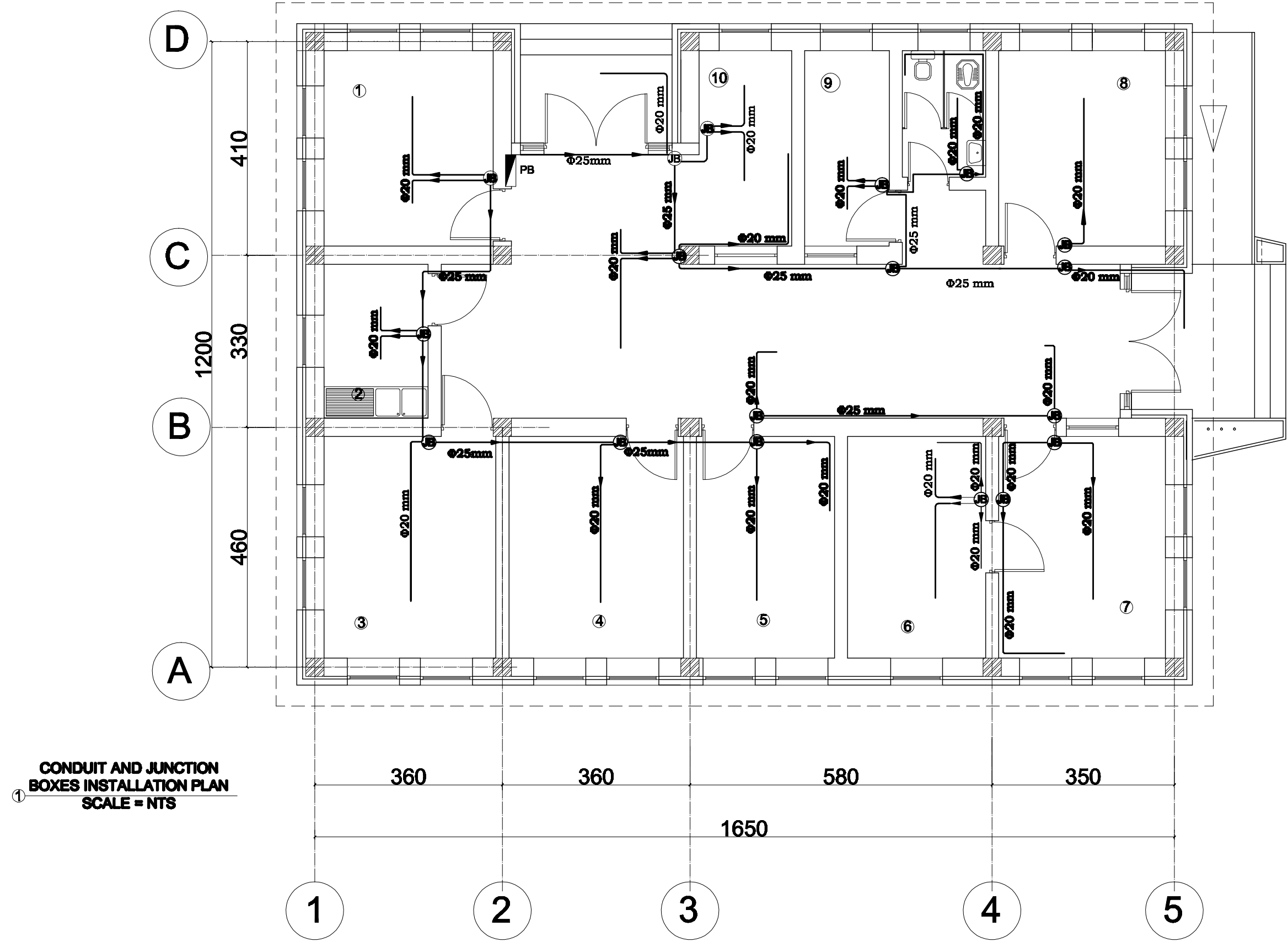


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>FAN INSTALATION PLAN</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0790 335 066 , 0790 384 478		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT			
SCALE	<b>NTS</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008								
DRAWING NUMBER	<b>BHC.EL-002</b>							DESIGNED BY	Eng.M.Anwar		July-2008								
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008								
								APPROVALS											
							PROJECT MANAGER												
							PROJECT DIRECTOR												




**POWER OUTLET INSTALLATION  
AND GROUNDING DETAIL**  
SCALE = NTS

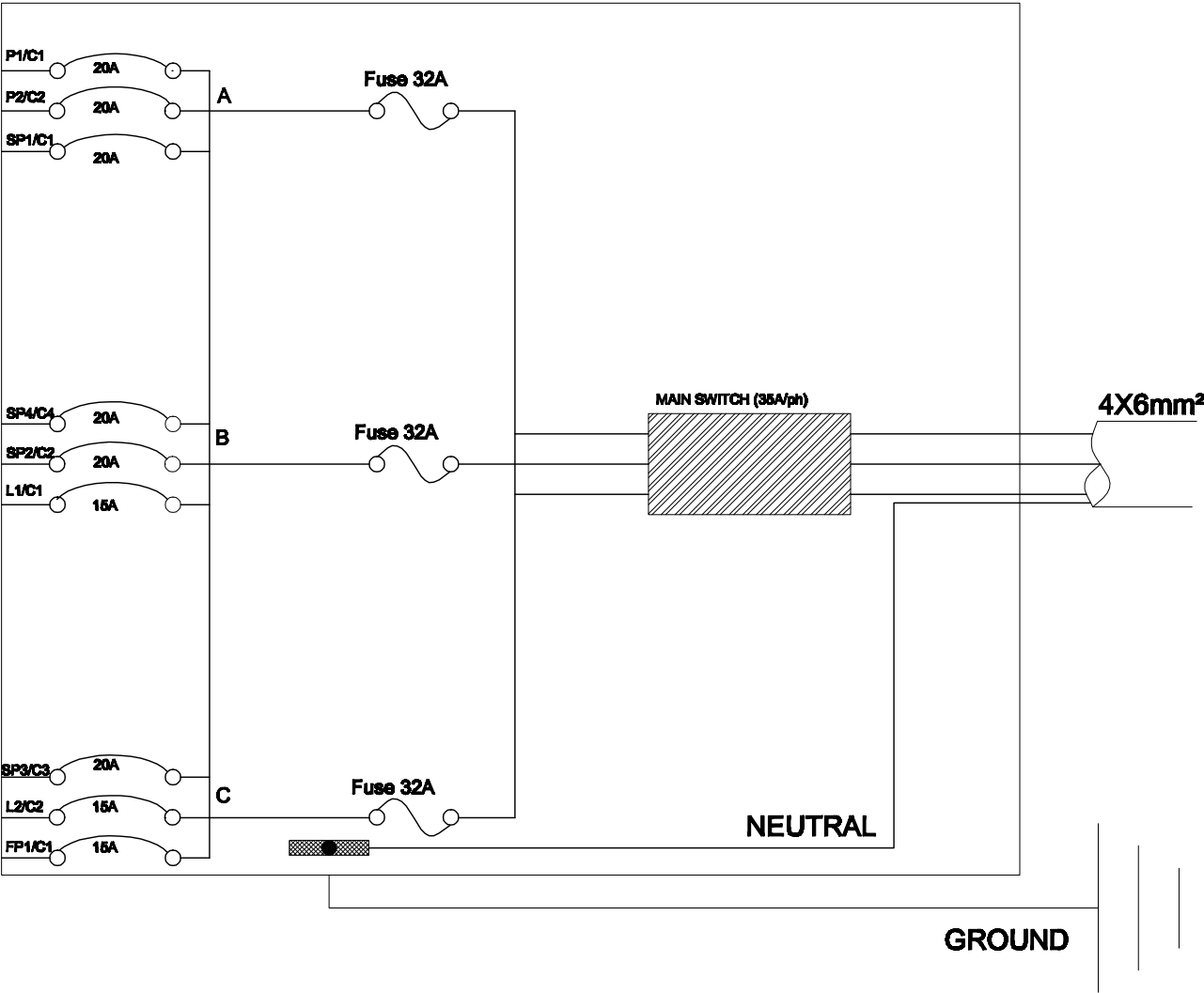
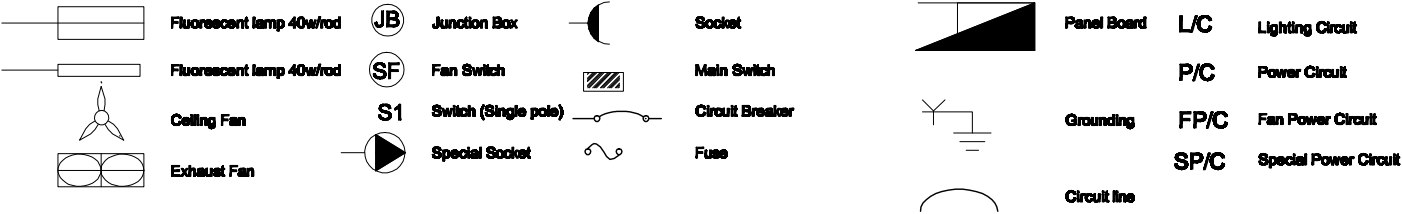
CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>POWER OUTLET INSTALTION &amp; GROUNDING DETAILS</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baceag@yahoo.com Mobile: 0799 335 666 , 0799 364 476		CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT			
SCALE	NTS		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008								
DRAWING NUMBER	BHC.EL-009							DESIGNED BY	Eng.M.Anwar		July-2008								
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008								
								APPROVALS											
								PROJECT MANAGER											
								PROJECT DIRECTOR											



① **CONDUIT AND JUNCTION  
BOXES INSTALLATION PLAN**  
SCALE = NTS

CAD FILE		<div><div>BASIC HEALTH CLINIC ( BHC )</div><div>CONDUIT &amp; JUNCTION BOXES INSTALATION PLAN</div></div>	REVISIONS					INITL	SIG.	DATE	<div><div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div></div>	<div>ARCHITECT</div> <div><div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div><div>Email: baceag@yahoo.com Mobile: 0799 335 606 , 0799 304 478</div></div> <div></div>	<div>CLIENT</div> <div><div>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</div></div>	RECIPIENT
SCALE	NTS		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG	July-2008				
DRAWING NUMBER	BHC.EL-005							DESIGNED BY	Eng.M.Anwar	July-2008				
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008				
							APPROVALS							
							PROJECT MANAGER							
							PROJECT DIRECTOR							

POWER AND LIGHTING LEGEND




PANEL BOARD NAME PB  
PANEL BOARD TYPE MAIN SWITCH  
PANEL BOARD LOCATION GROUND FLOOR

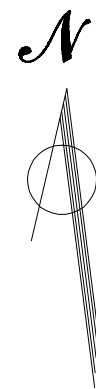
C.B. No.	CONDUIT SIZE	TRIP AMP.	MAX. CURRENT	WIRE SIZE	LOCATION	LOAD SERVED	LOAD V.A	
							V.A	PHASE
P2/C2	Ø20mm	20	12.27	3(1X2.5mm²)	R3-R7	SOCKETS	2700	A
P1/C1	Ø20mm	20	12	3(1X2.5mm²)	R1,R2,R8 - R10	SOCKETS	2640	A
SP1/C1	Ø25mm	20	9.1	3(1X4mm²)	ROOM # 5	S - SOCKETS	2000	A
SPARE							1500	A
L1/C1	Ø20mm	15	8.36	2(1X2.5mm²)	R3-R7	LAMPS	1840	B
SP2/C2	Ø25mm	20	18.2	3(1X4mm²)	ROOM # 6	S - SOCKETS	4000	B
SP4/C4	Ø25mm	20	9.1	3(1X4mm²)	TOILET	S - SOCKETS	2000	B
SPARE							1500	B
L2/C2	Ø20mm	15	7.63	2(1X2.5mm²)	R1,R2,R8 - R10	LAMPS	1680	C
FP1/C1	Ø20mm	15	8	2(1X2.5mm²)	ALL ROOMS	FANS	1760	C
SP3/C3	Ø25mm	20	18.3	3(1X4mm²)	ROOM # 6	S - SOCKETS	4000	C
SPARE							1500	C

TOTAL LOAD IN (PB) = 22.62KVA  
PHASE BALANCE A=7340 B=7840VA C= 7440VA

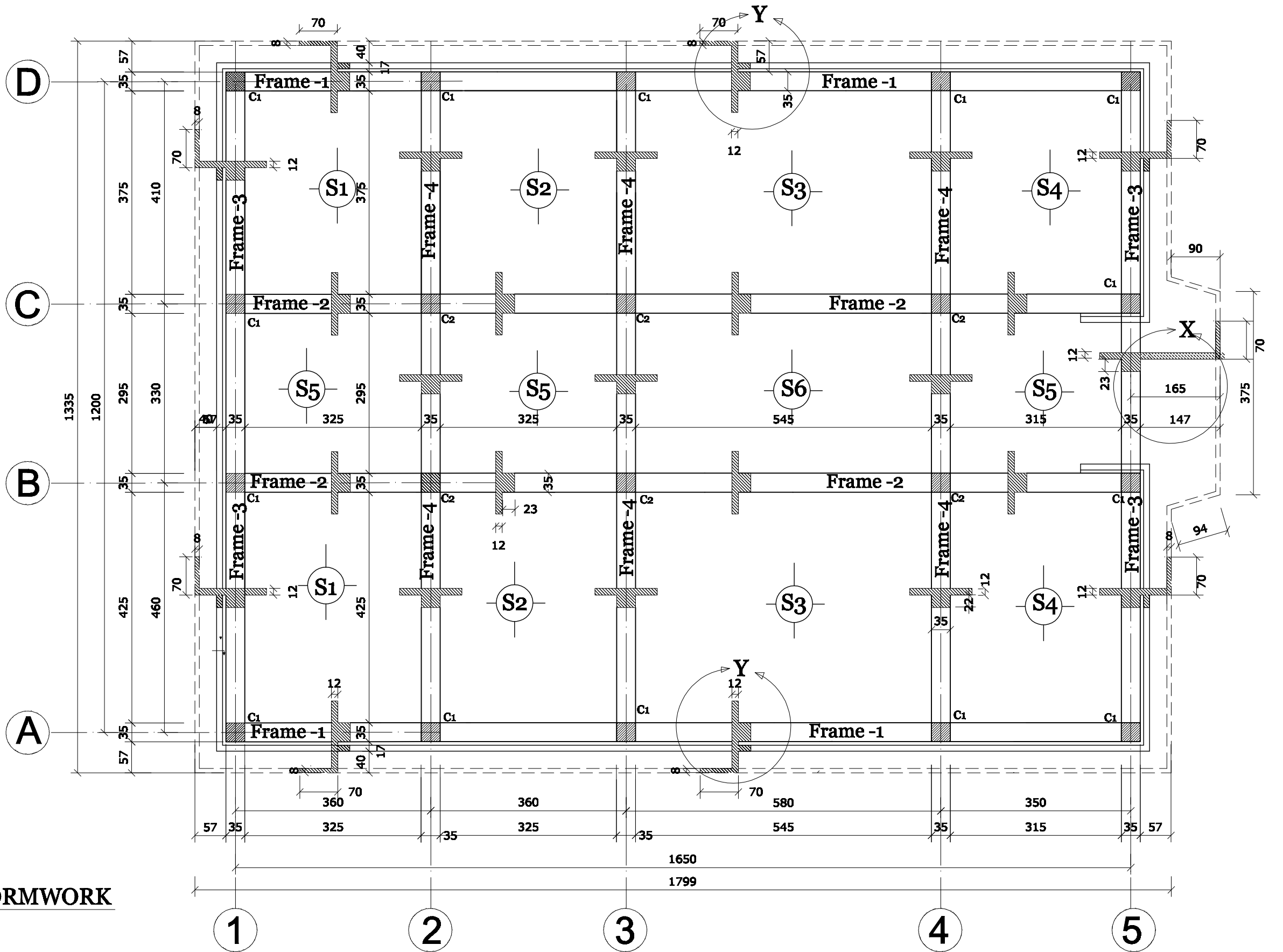
SPARE LOAD 20% = 4.5KVA  
PHASE BALANCE A= 1500A B= 1500VA C=1500VA


ELECTRICAL LEGEND AND  
LOAD DISTRIBUTION PLAN  
1 SCALE = NTS

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>ELECTRICAL LEGEND &amp; LOAD DISTRIBUTION PLAN</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baceag@yahoo.com Mobile: 0799 335 666 , 0799 304 476		CLIENT  <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT		
SCALE	NTS		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008							
DRAWING NUMBER	BHC.EL-010							DESIGNED BY	Eng.M.Anwar		July-2008							
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008							
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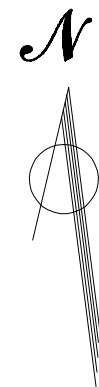


SLAB FORMWORK

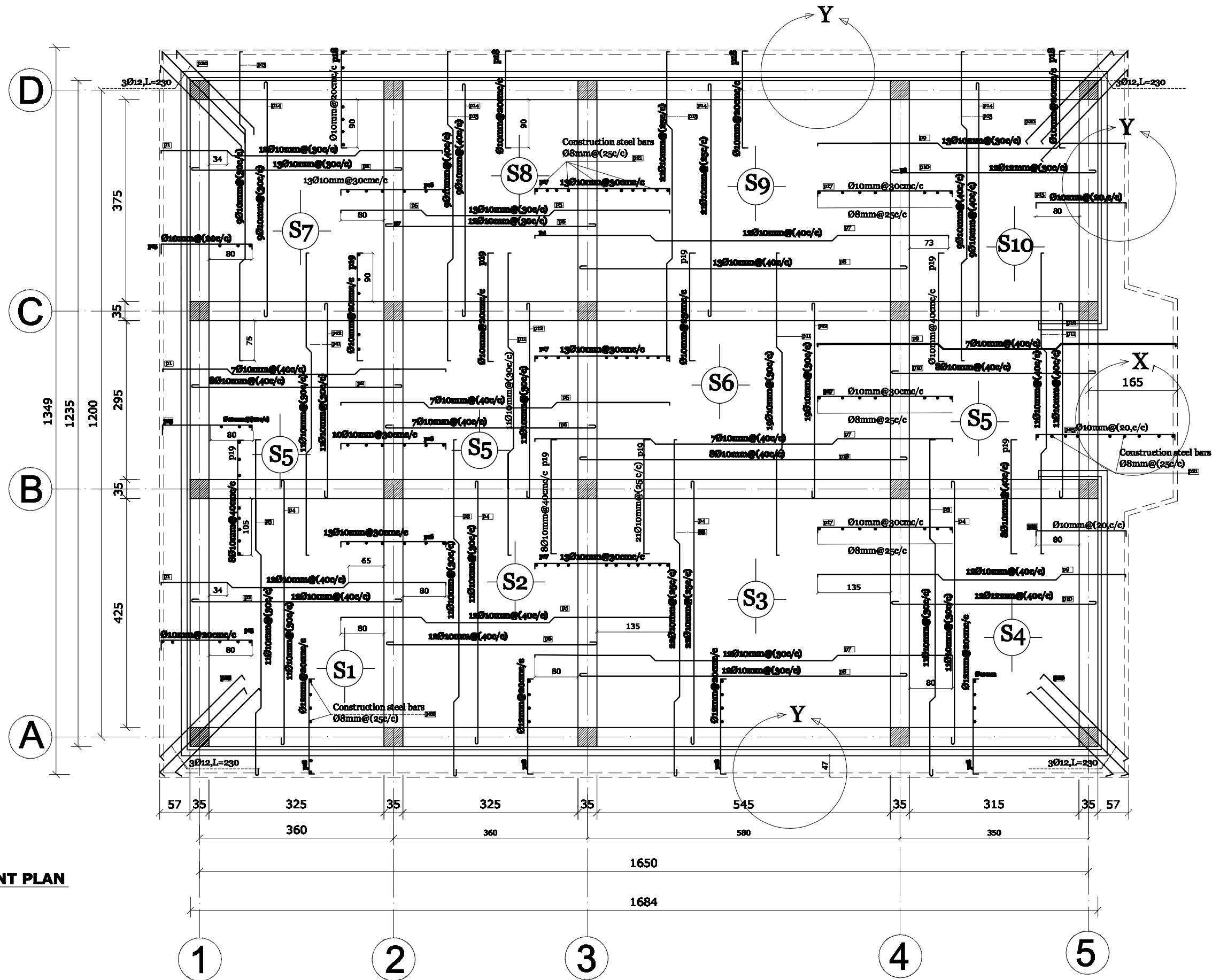


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>SLAB FORM WORK PLAN</b>	REVISIONS						INTL.	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT	 <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b> Email: baaceag@yahoo.com Mobile: 0700 325 620 , 0700 324 470	CLIENT	<b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	1:75		NO.	REVISION	NAME	INTL.	DATE	PRODUCED BY	BaCEAG		July-2008						
DRAWING NUMBER	BHC.ST-004							DESIGNED BY	Eng.Muradi		July-2008						
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008						
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								PROJECT MANAGER									
								PROJECT DIRECTOR									



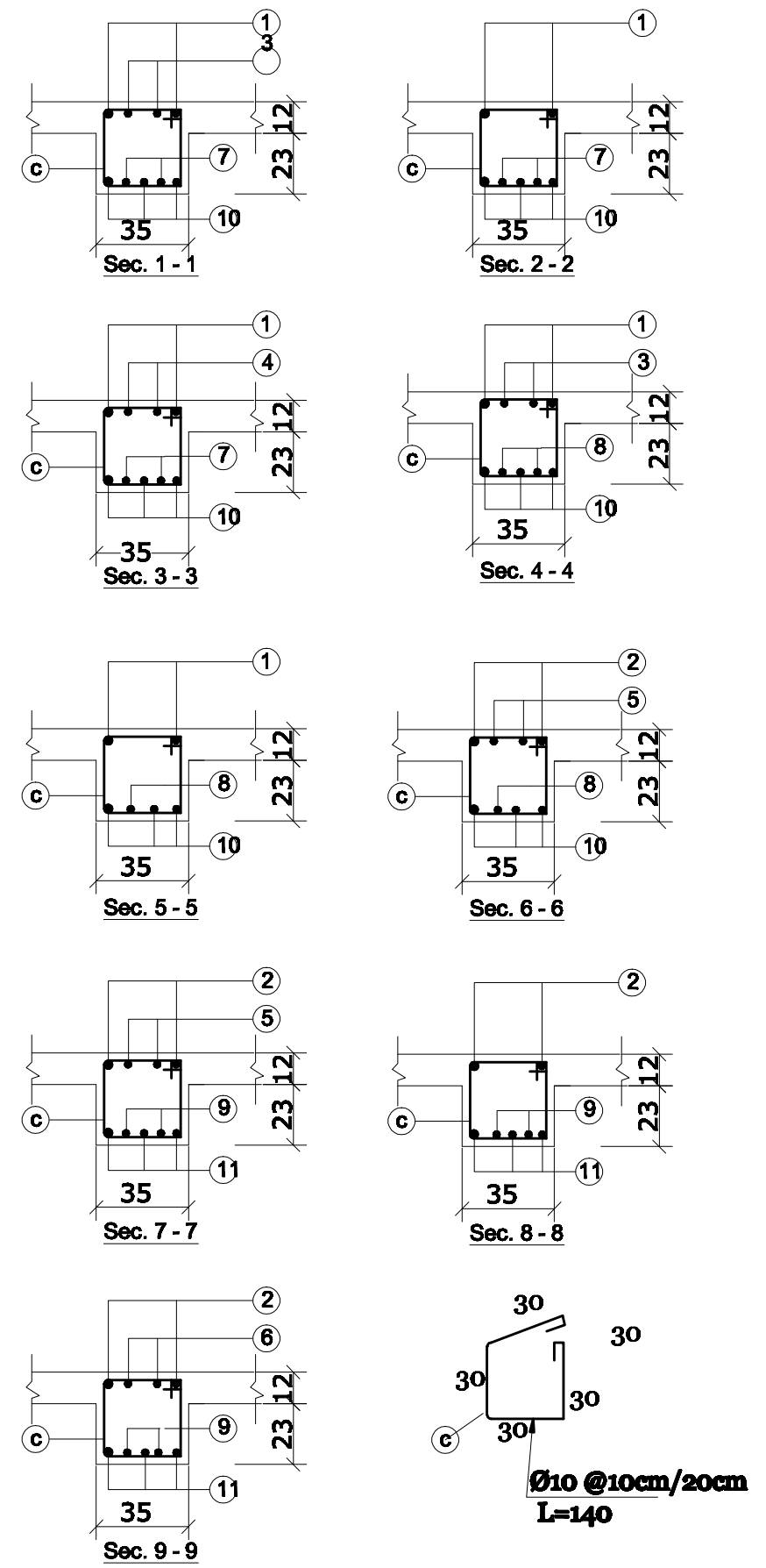
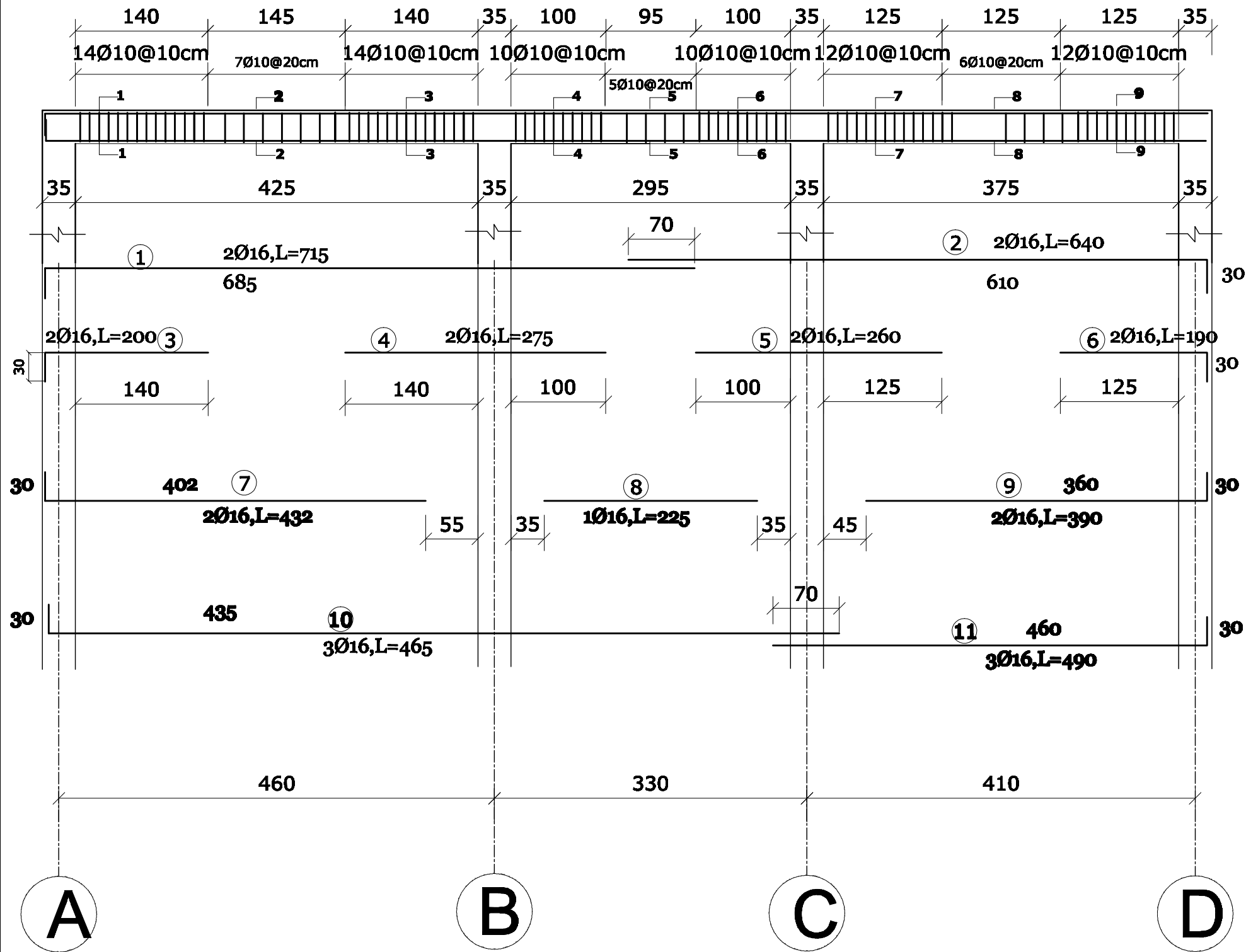



SLAB REINFORCEMENT PLAN



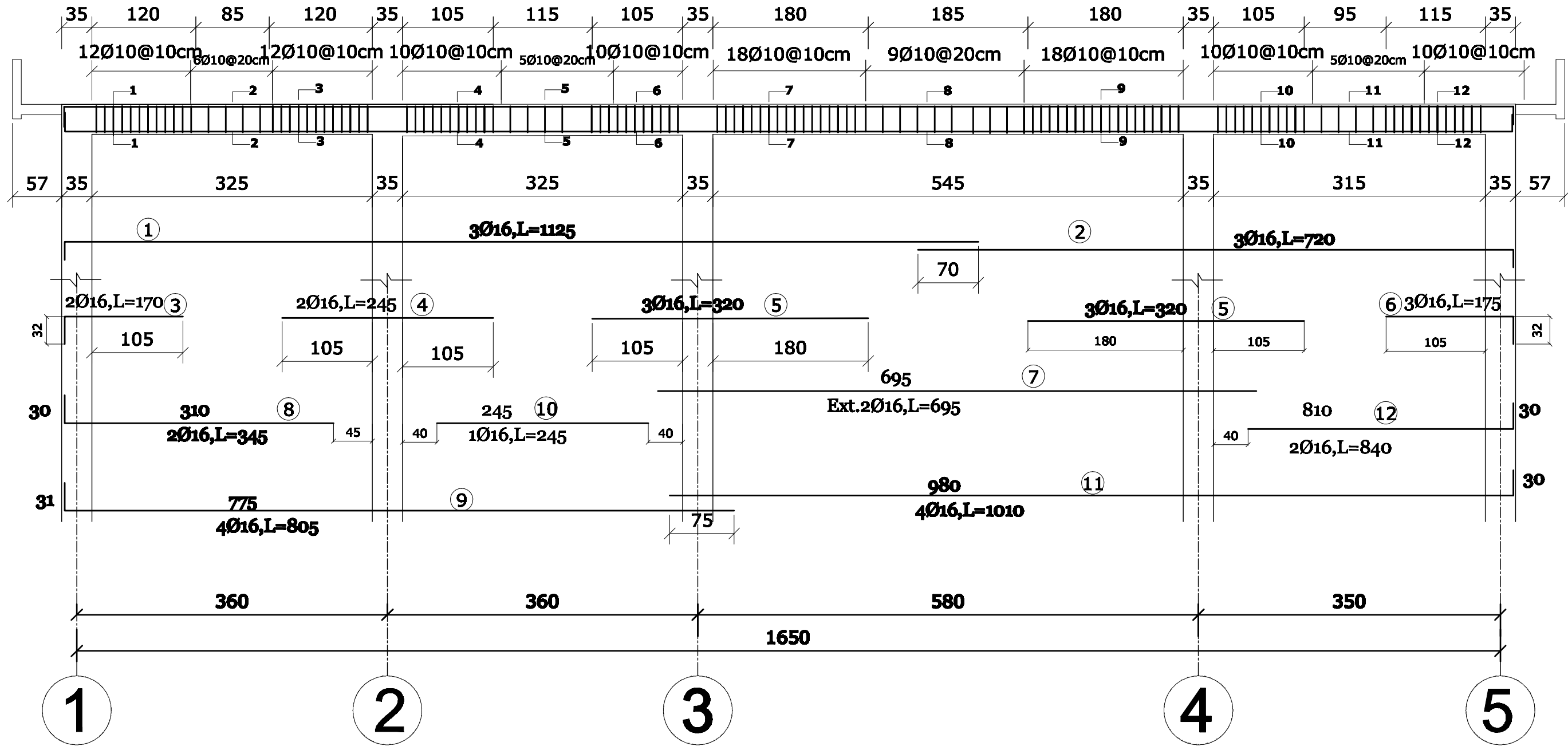
CAD FILE	1:75	BASIC HEALTH CLINIC ( BHC )	REVISIONS				INITL	SIG.	DATE	BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN	ARCHITECT <b>BaCEAG</b> CONSULTATIVE ENGINEERING & ARCHITECTURAL GROUP Email: baaceag@yahoo.com Mobile: 0700 205 000 , 0700 204 470	CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
			NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	July-2008				
								DESIGNED BY	Eng. Muradi				
								CHECKED BY	Eng. A. Karim				
DRAWING NUMBER	BHC.ST-005	SLAB REINFORCEMENT PLAN						APPROVALS					
PROJECT NUMBER								PROJECT MANAGER					
								PROJECT DIRECTOR					


# Frame -4 (3Num.)

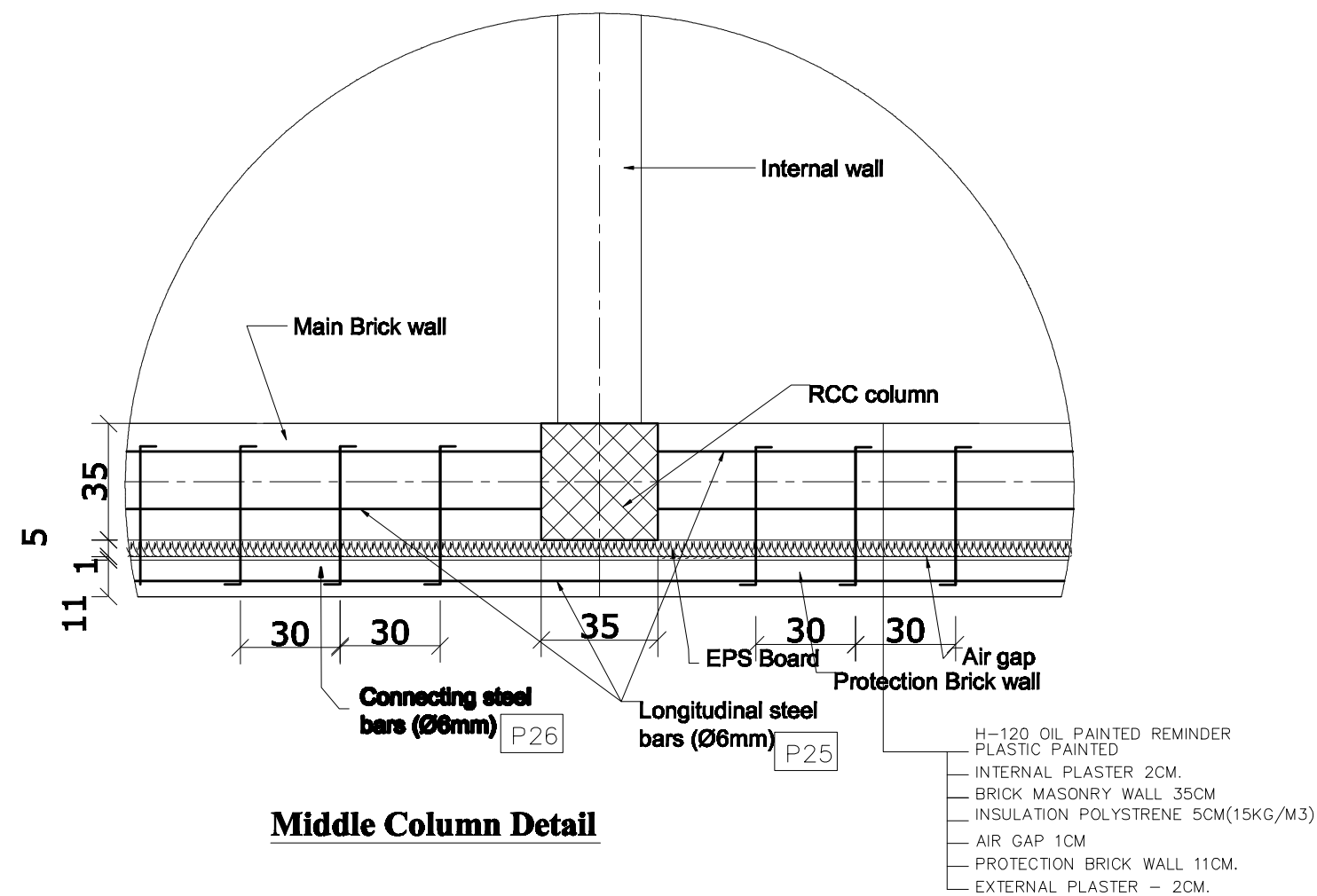
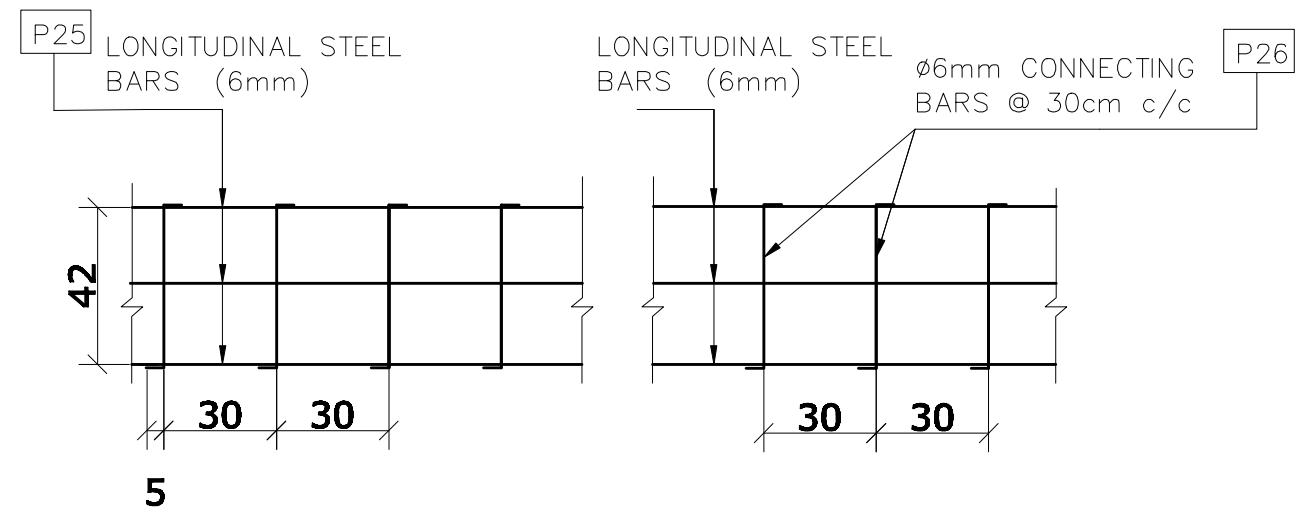
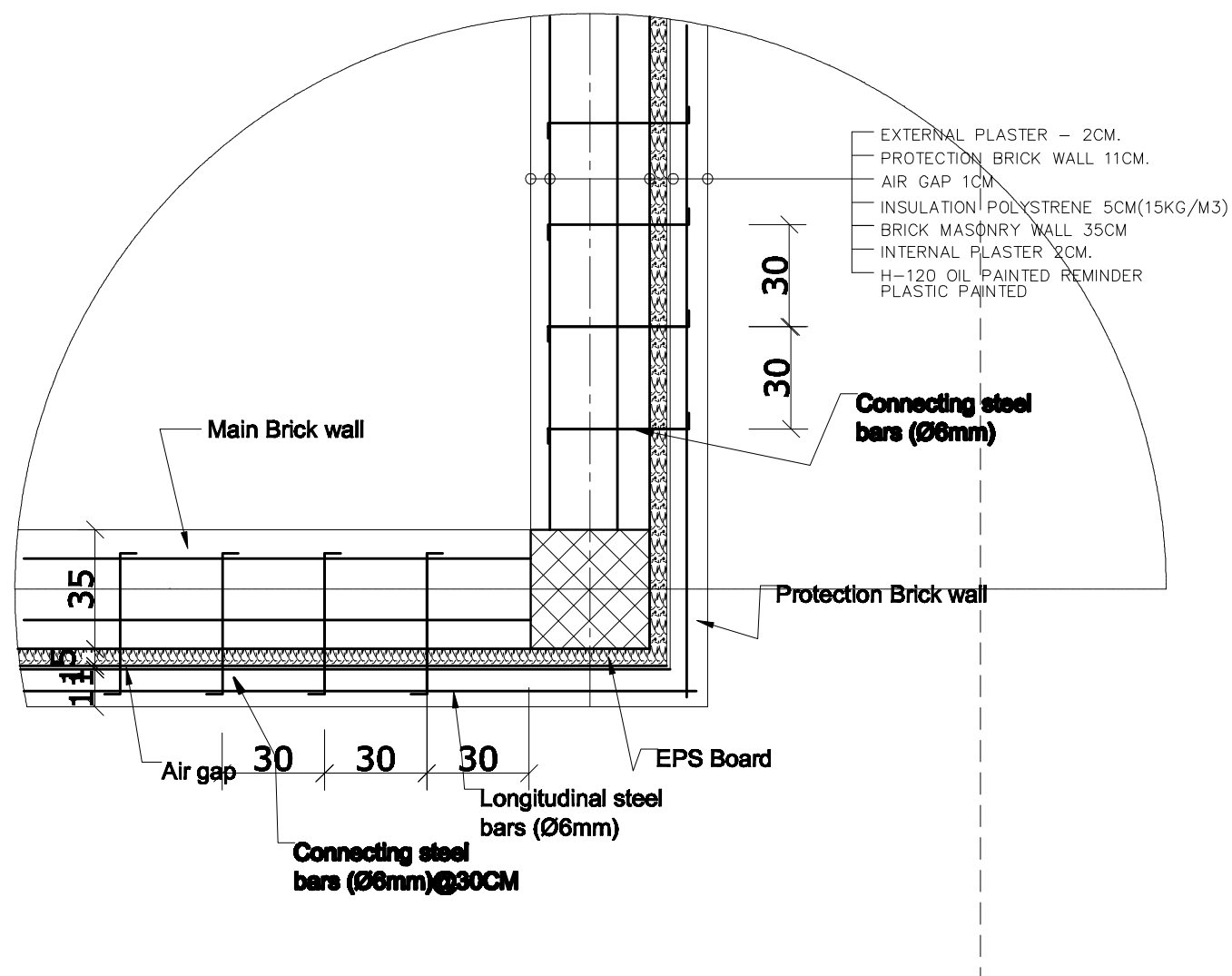



CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>FRAME - 4 &amp; SECTIONS</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH  CLINIC ( BHC )  KABUL - AFGHANISTAN</b>	ARCHITECT  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  <small>Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0700 304 600 , 0700 304 470</small>		CLIENT  <b>MINISTRY OF PUBLIC HEALTH  AFGHANISTAN</b>	RECIPIENT
SCALE	1;50,1:25		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	BHC.ST-013							DESIGNED BY	Eng.Muradi		July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008					
								APPROVALS								
								PROJECT MANAGER								
							PROJECT DIRECTOR									

Frame -1 (2Num.)

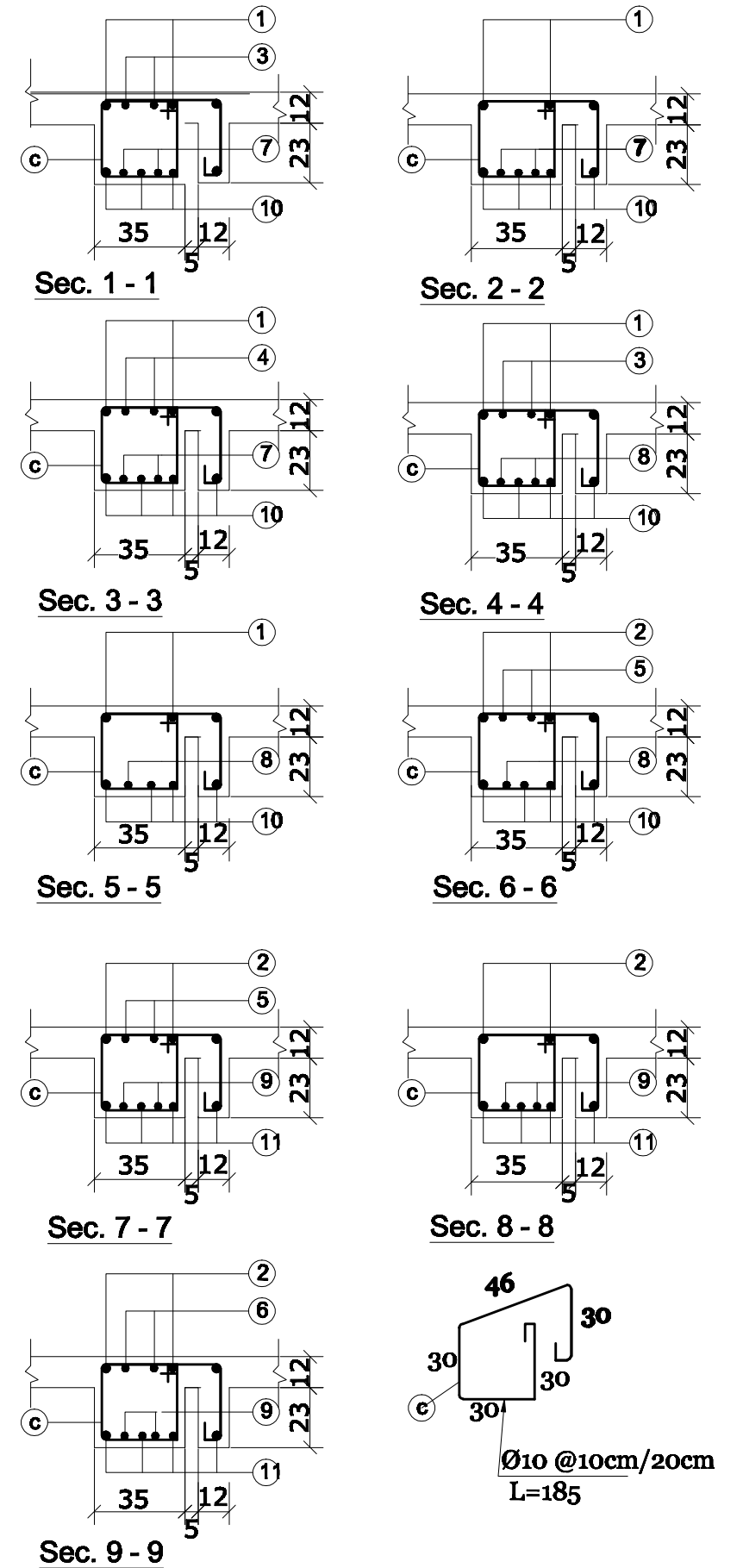
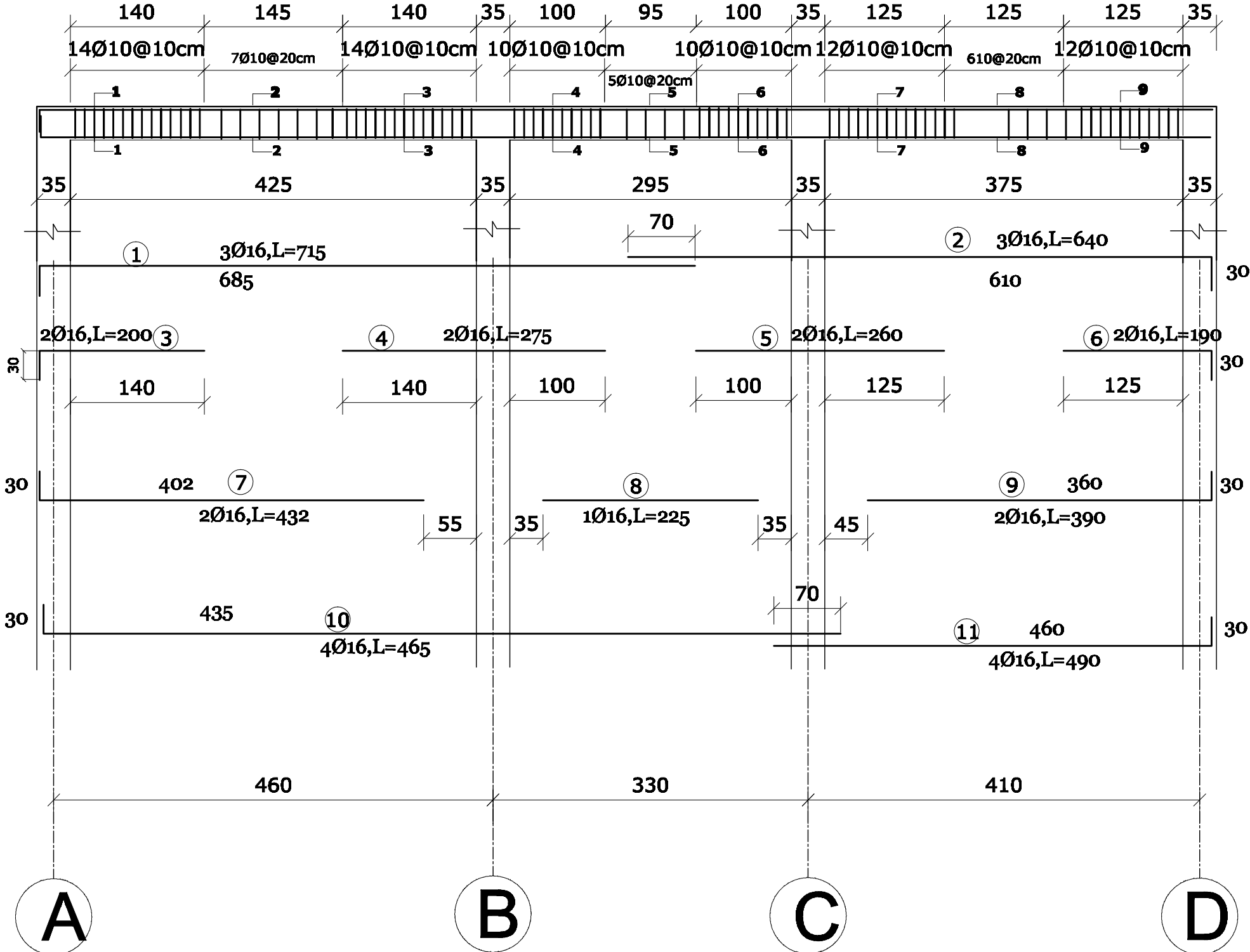



CAD FILE		<div>BASIC HEALTH CLINIC ( BHC )</div> <div>FRAME - 1 REINFORCEMENT</div>	REVISIONS						INTL	SIG.	DATE	<div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div>	<div>ARCHITECT</div> <div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div> <div>Email: baaceag@yahoo.com Mobile: 0700 505 000 , 0700 504 470</div>	<div></div>	CLIENT	MINISTRY OF PUBLIC HEALTH AFGHANISTAN	RECIPIENT	
SCALE	1:50		NO.	REVISION	NAME	INTL	DATE	PRODUCED BY	BaCEAG	July-2008								
DRAWING NUMBER	BHC.ST-008							DESIGNED BY	Eng.Muradi	July-2008								
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008								
			APPROVALS															
								PROJECT MANAGER										
								PROJECT DIRECTOR										

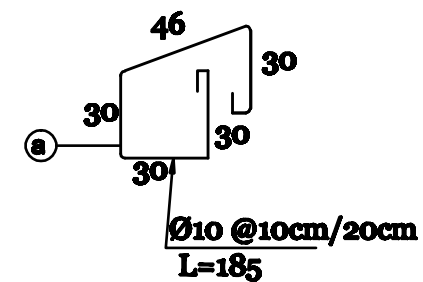
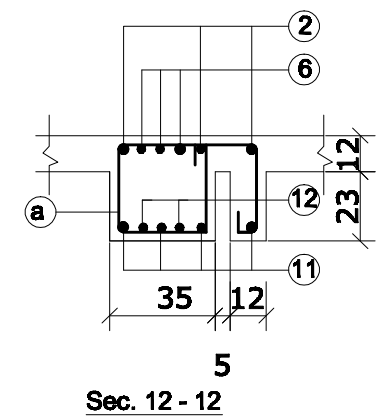
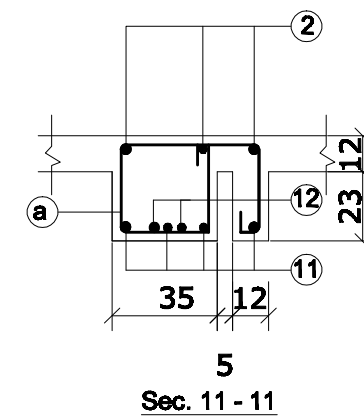
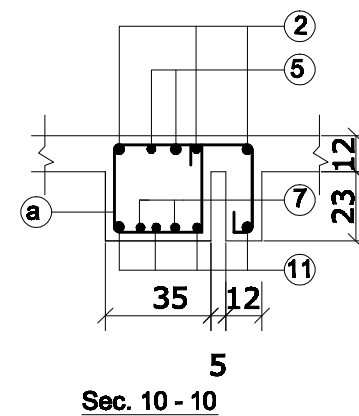
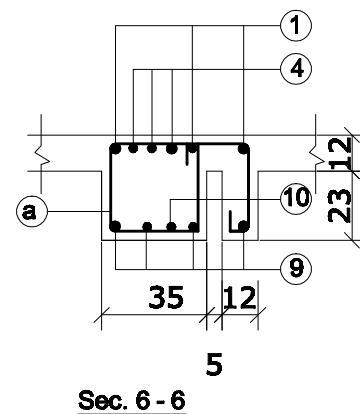
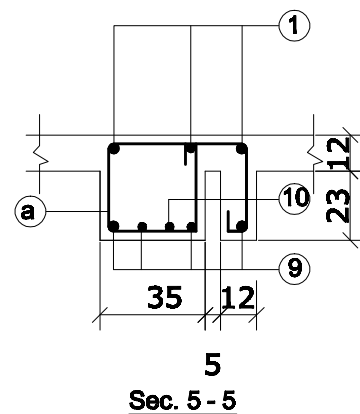
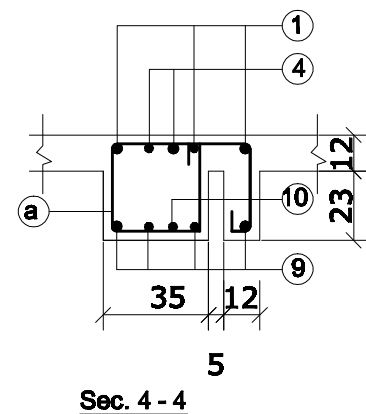
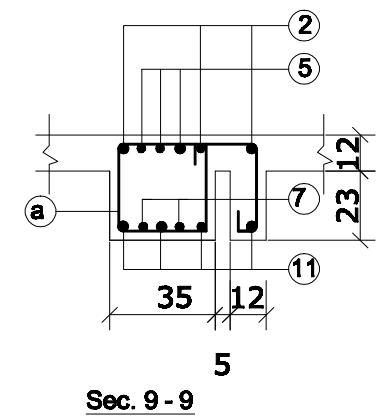
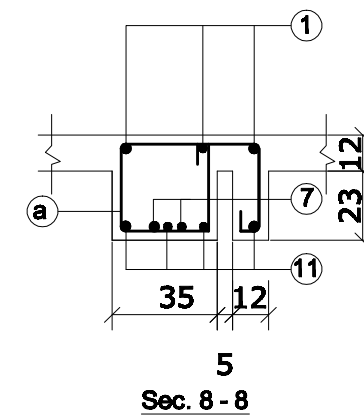
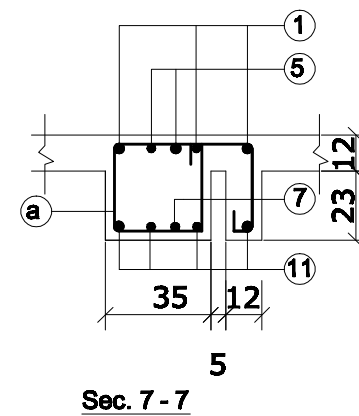
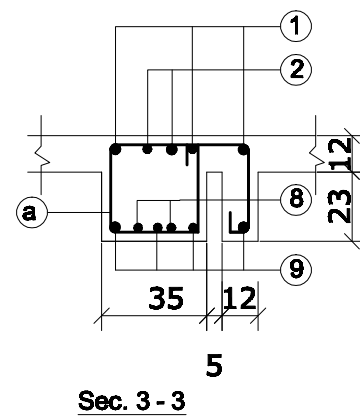
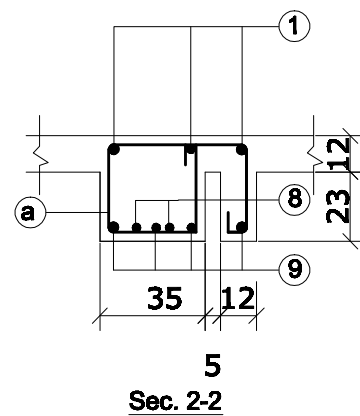
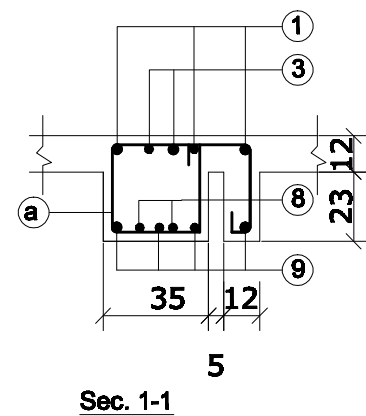



CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>WALL CONNECTION DETAILS</b>	REVISIONS						INTL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: haseeg@yahoo.com Mobile: 9700 305 000 , 9700 304 470		CLIENT  <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	1:20		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	BHC.ST-014							DESIGNED BY	Eng.Muradi		July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008					
								APPROVALS								
								PROJECT MANAGER								
								PROJECT DIRECTOR								

### Frame -3 (2Num.)

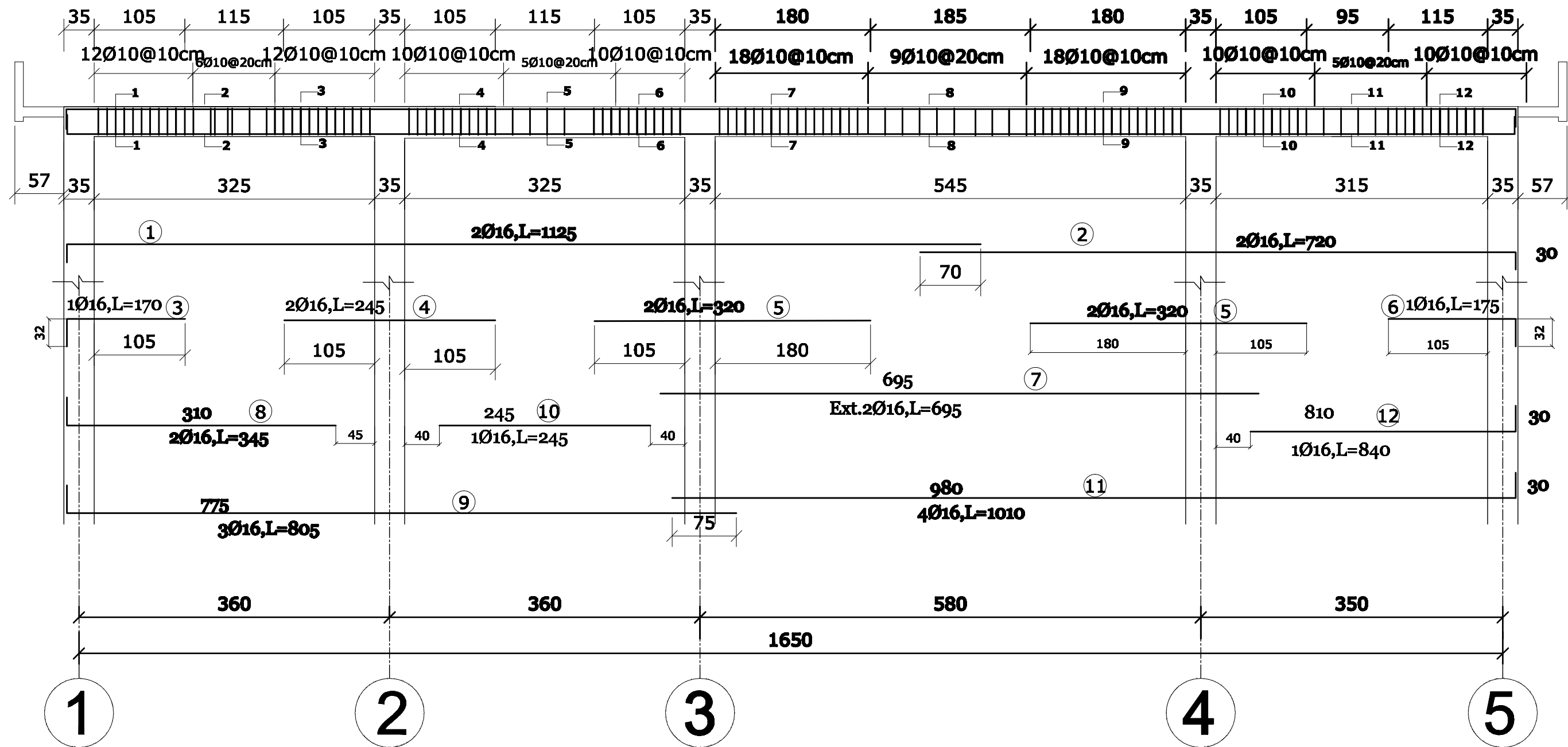



CAD FILE		<div>BASIC HEALTH CLINIC ( BHC )</div> <div>FRAME - 3 &amp; SECTIONS</div>	REVISIONS					INITL.	SIG.	DATE	<div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div>	<div>ARCHITECT</div> <div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div> <div>Email: baceag@yahoo.com Mob/Mail: 9700 365 060 , 9700 364 470</div> <div></div>	CLIENT	MINISTRY OF PUBLIC HEALTH AFGHANISTAN	RECIPIENT
SCALE	1:50,1:25		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG	July-2008					
DRAWING NUMBER	BHC.ST-012							DESIGNED BY	Eng.Muradi	July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008					
								APPROVALS							
								PROJECT MANAGER							
							PROJECT DIRECTOR								



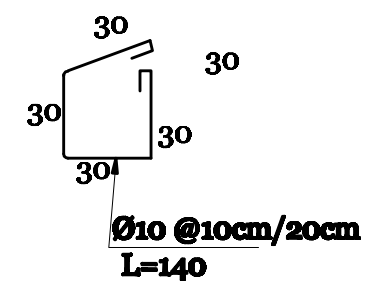
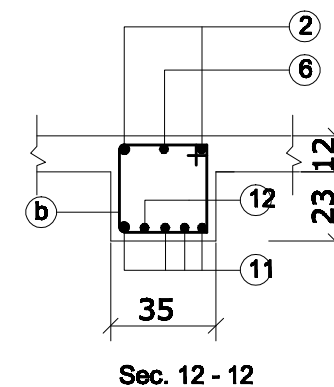
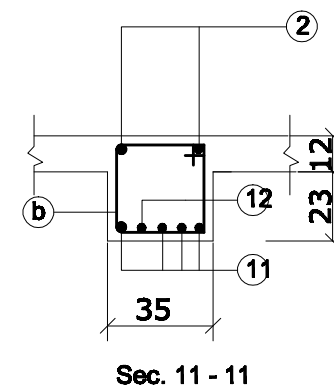
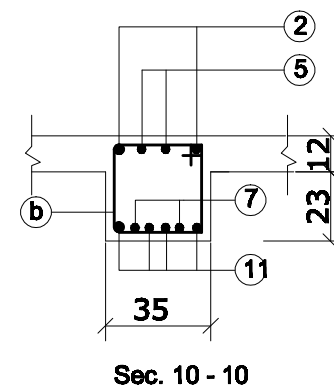
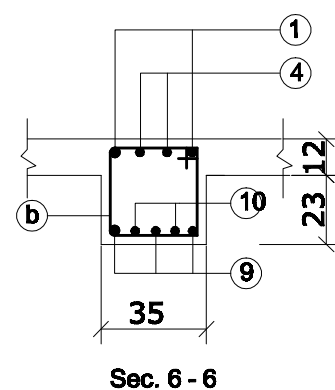
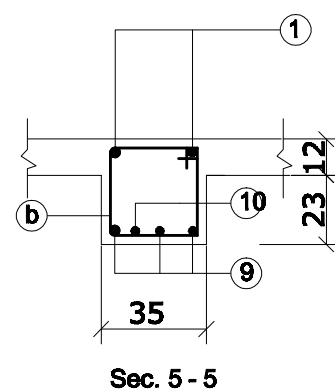
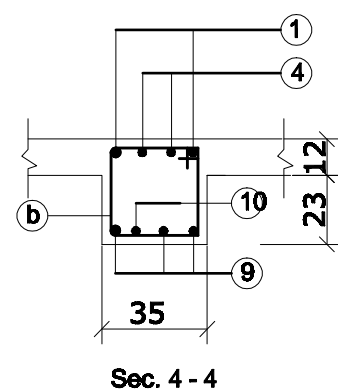
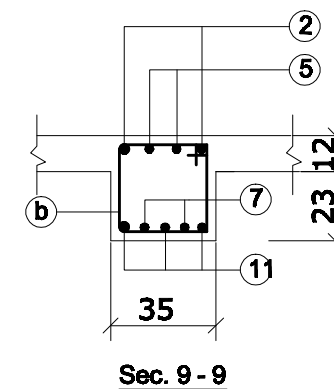
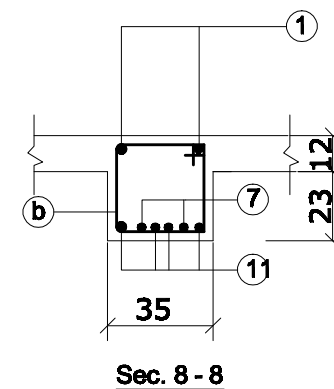
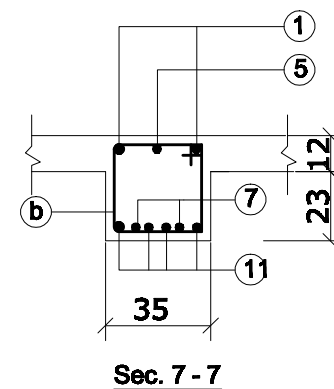
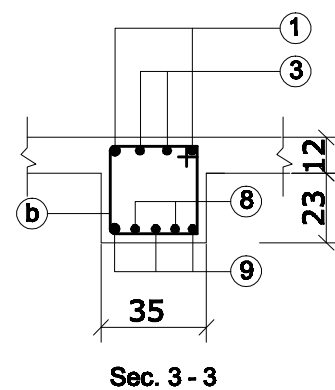
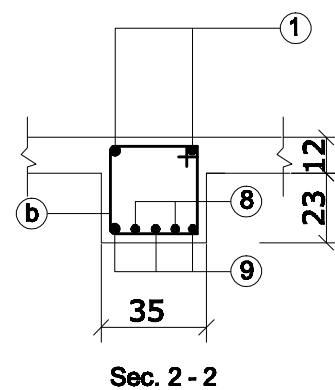
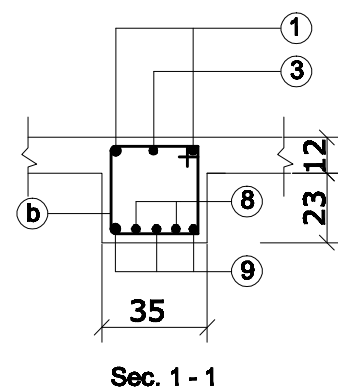
CAD FILE		<div>BASIC HEALTH CLINIC ( BHC )</div> <div>SECTION FOR FRAME - 1</div>	REVISIONS					INITL	SIG.	DATE	<div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div>	<div>ARCHITECT</div> <div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div> <div>Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 9700 336 000 , 9700 334 470</div>	<div></div>	CLIENT	MINISTRY OF PUBLIC HEALTH AFGHANISTAN	RECIPIENT
SCALE	1:25		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG	July-2008						
DRAWING NUMBER	BHC.ST-009							DESIGNED BY	Eng.Muradi	July-2008						
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008						
			APPROVALS													
							PROJECT MANAGER									
							PROJECT DIRECTOR									


# Frame - 2 (2Num.)



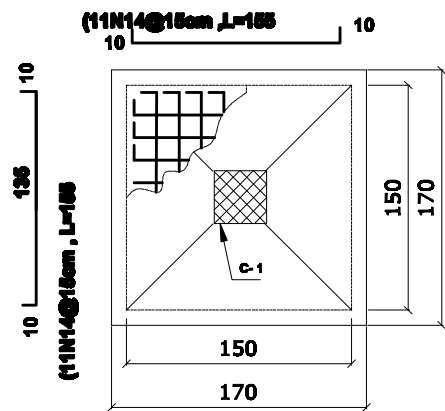
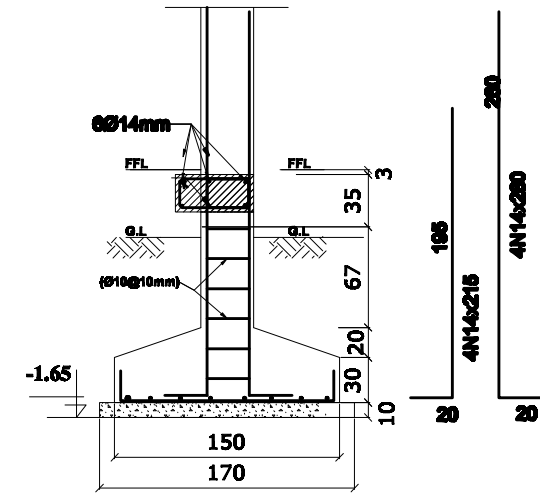
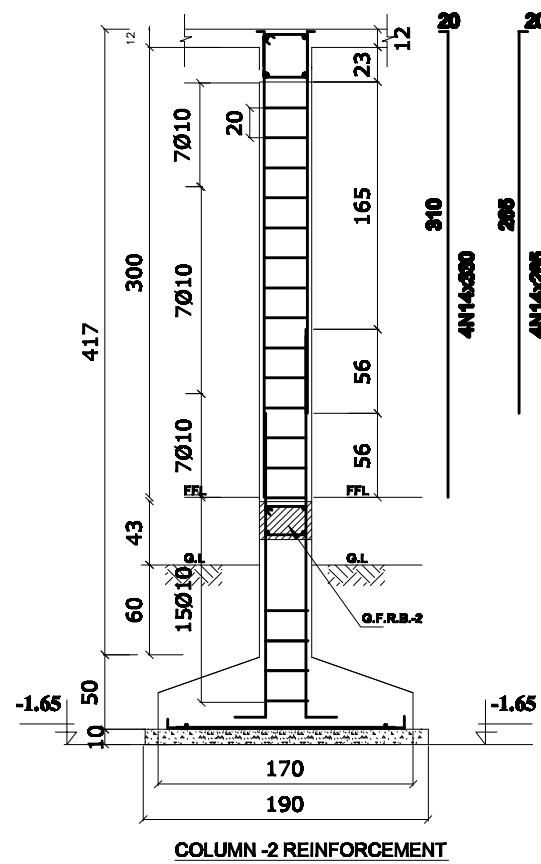
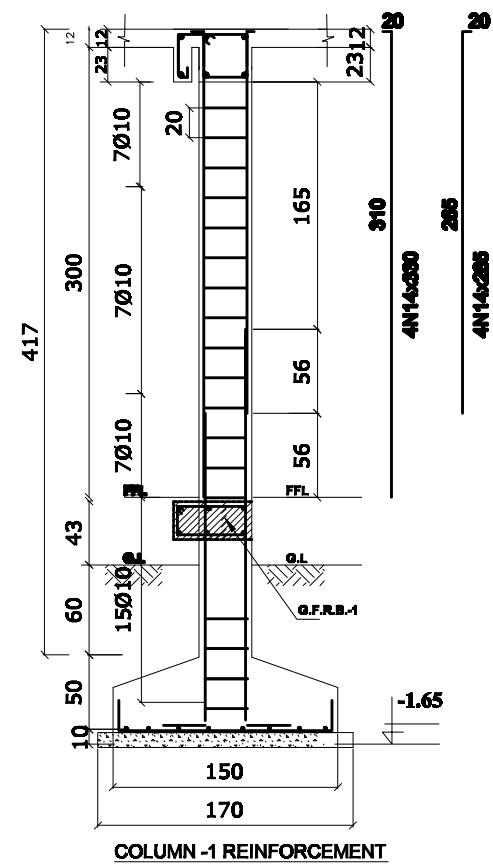
CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>FRAME - 2 REINFORCEMENT</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baaceag@yahoo.com Mobile: 0700 201 000 , 0700 204 470 	CLIENT <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT	
SCALE	1:50		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	BHC.ST-010							DESIGNED BY	Eng.Muradi		July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008					
								APPROVALS								
							PROJECT MANAGER									
							PROJECT DIRECTOR									



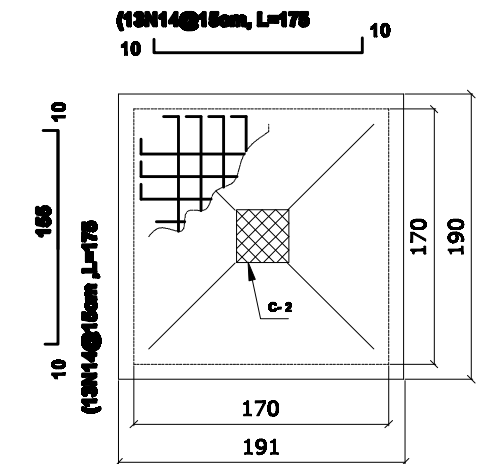
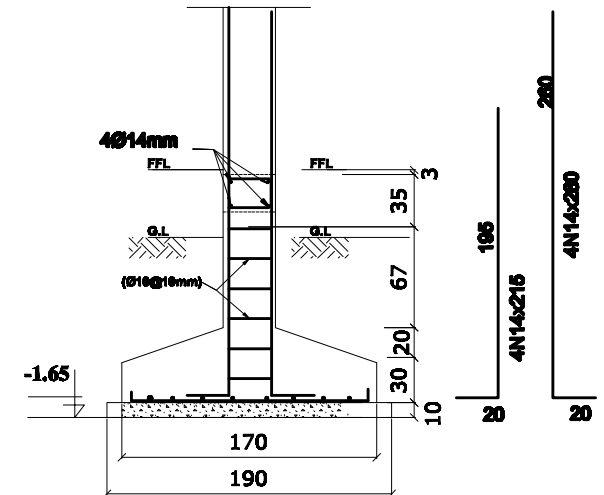


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>SECTION FOR FRAME - 2</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	<b>ARCHITECT</b>  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@bace.com">baceag@bace.com</a> Mobile: 0700 305 000 , 0700 304 470		<b>CLIENT</b>  <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	<b>RECIPIENT</b>
SCALE	1:25		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	BHC.ST-011							DESIGNED BY	Eng.Muradi		July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008					
								APPROVALS								
							PROJECT MANAGER									
							PROJECT DIRECTOR									

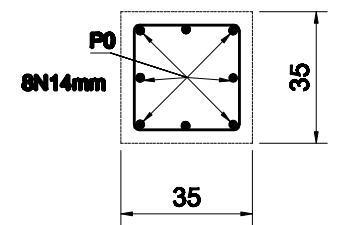




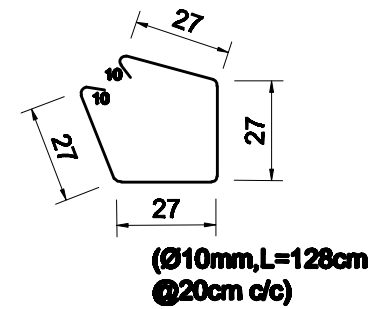
**Footing No-1**




**Footing No-2**



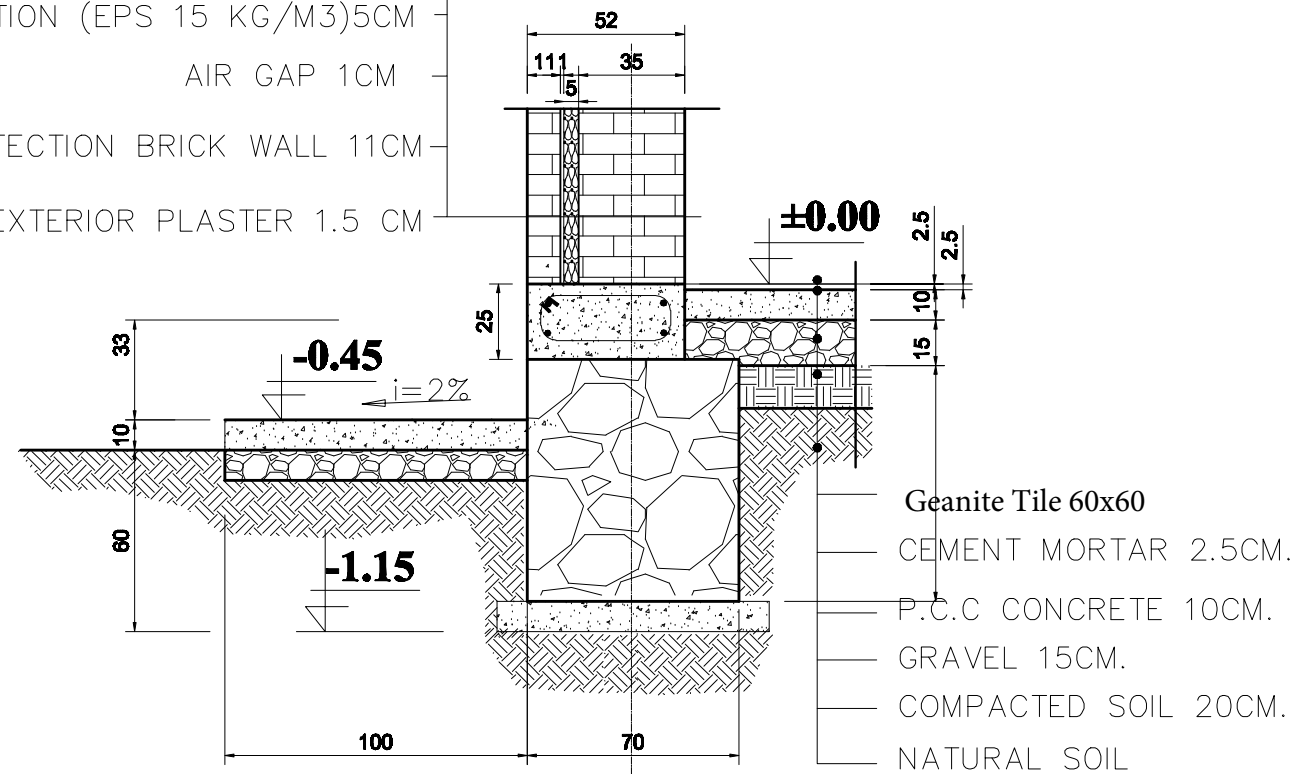
**Sec. for Columns**



**Sec. for Columns**

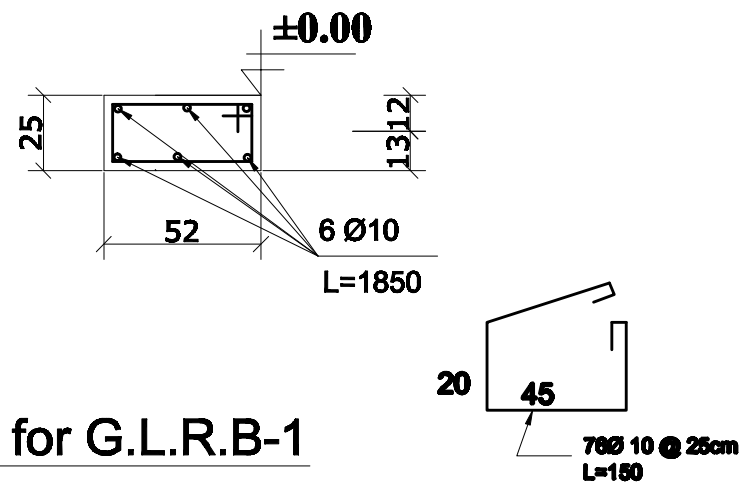
CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>COLUMNS REINFORCEMENT</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baecag@yahoo.com Mobile: 0700 305 000 , 0700 304 470		CLIENT  <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT
SCALE	1:50 ,1:20		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	BHC.ST-007							DESIGNED BY	Eng.Muradi		July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008					
								APPROVALS								
								PROJECT MANAGER								
							PROJECT DIRECTOR									

INTERNAL PLASTER 3CM. PAINTED  
BRICK WALL 35CM.  
INSULATION (EPS 15 KG/M3)5CM  
AIR GAP 1CM  
PROTECTION BRICK WALL 11CM  
EXTERIOR PLASTER 1.5 CM

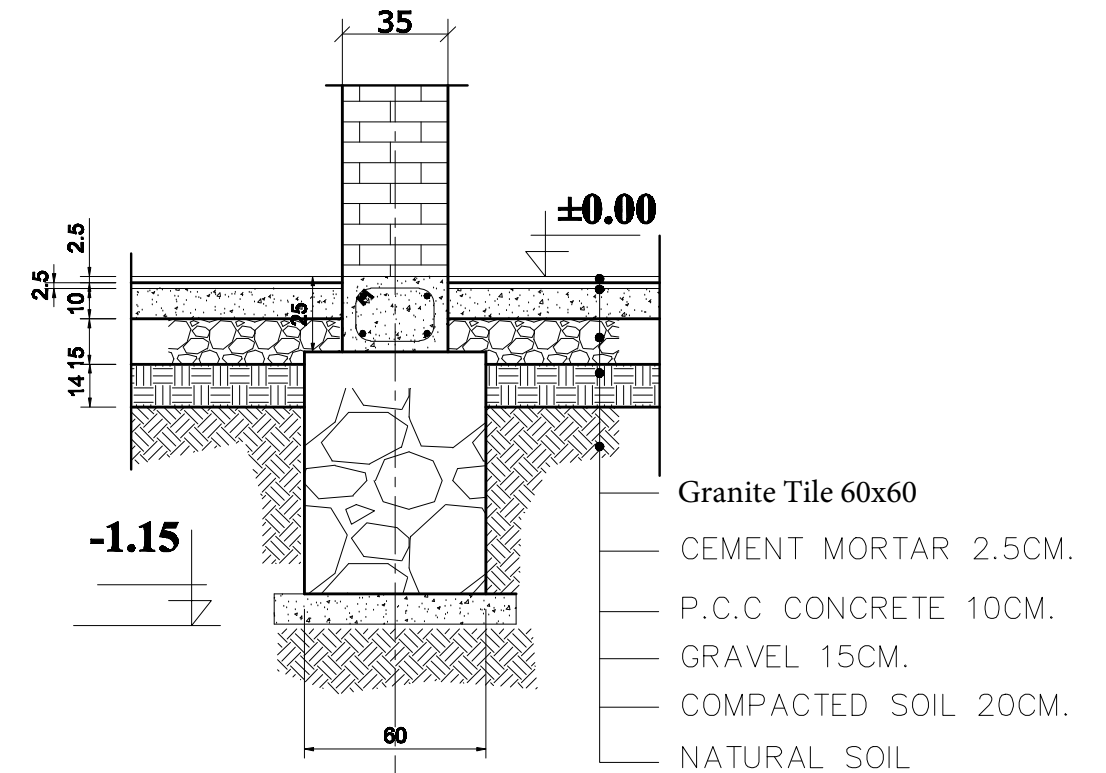
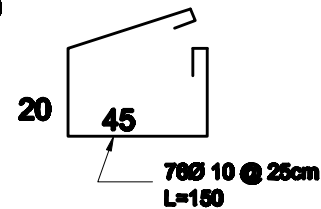


**Sec.a-a**

**A**

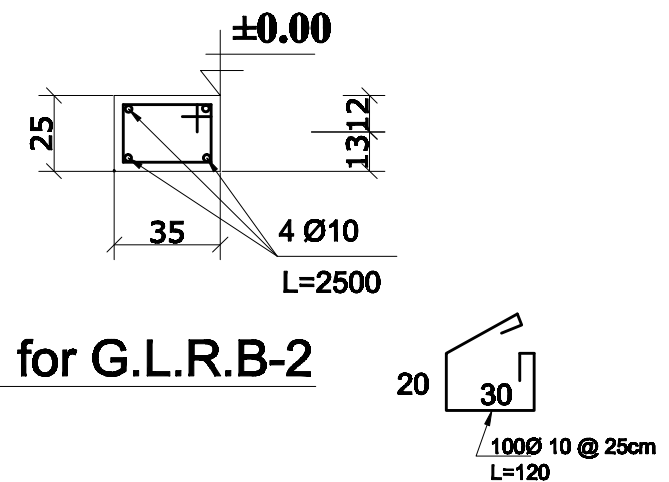


**Sec. for G.L.R.B-1**

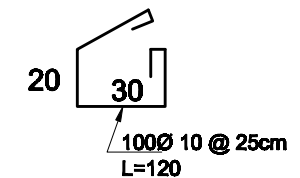



**Sec.b-b**

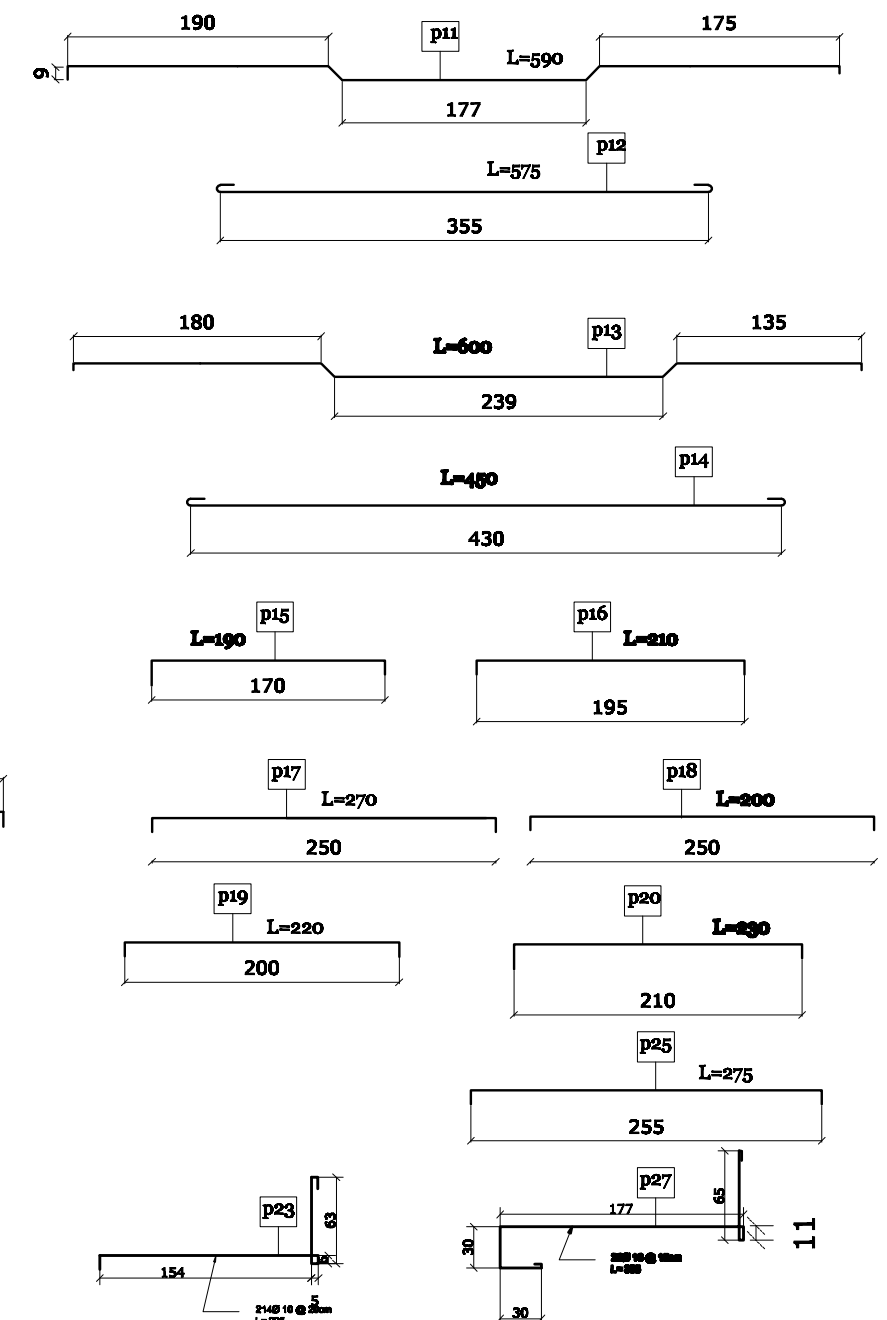
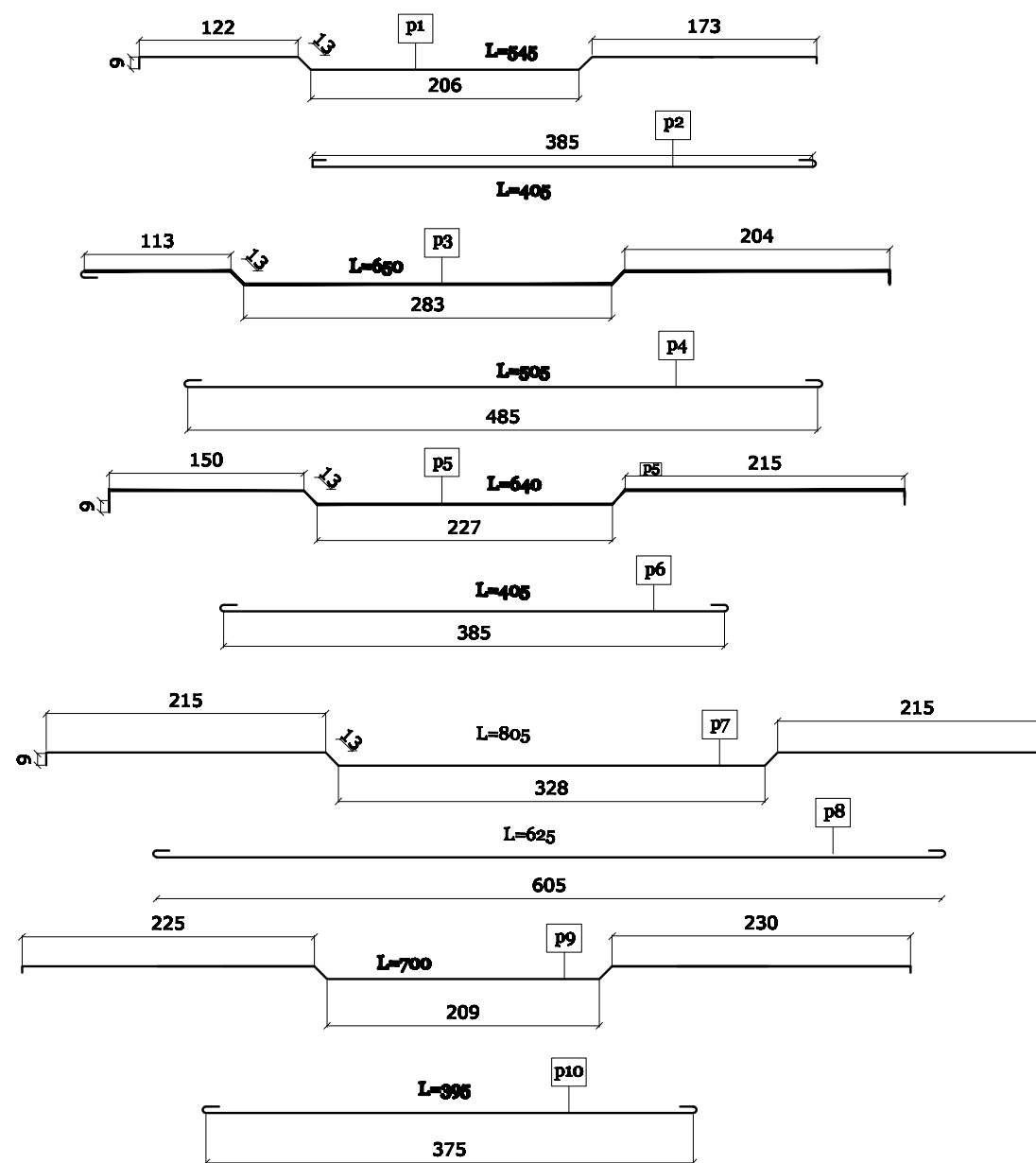
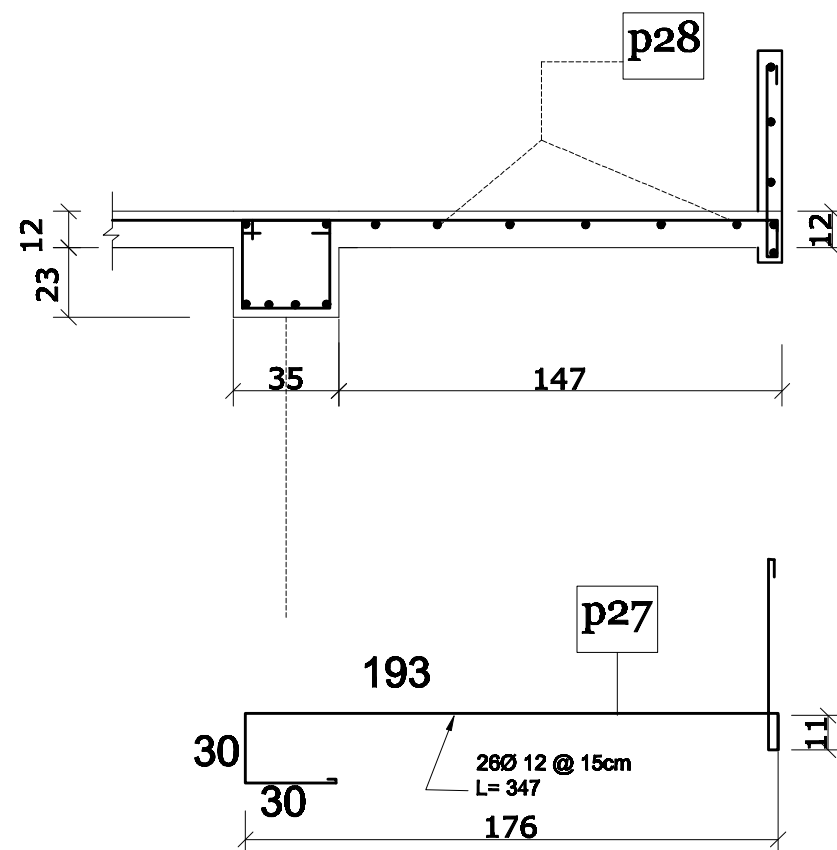
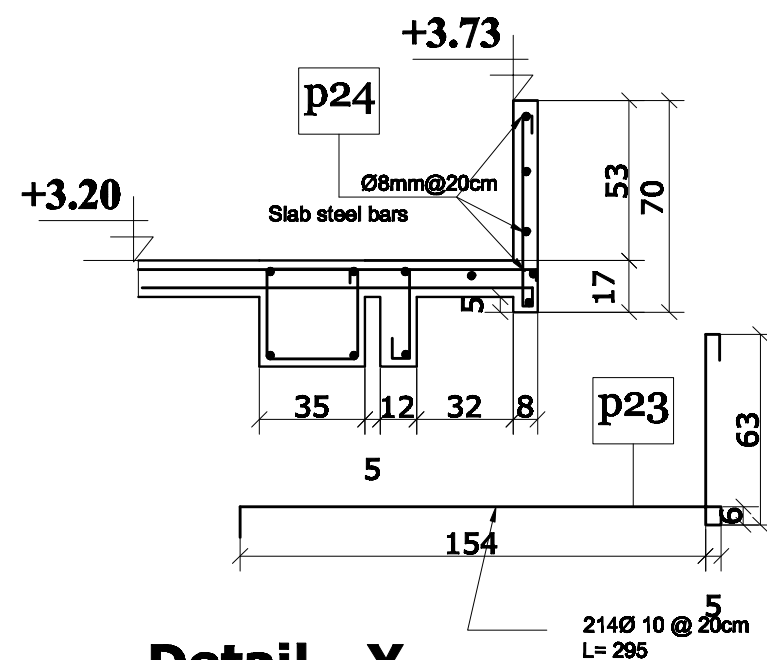
**B**




**Sec. for G.L.R.B-2**

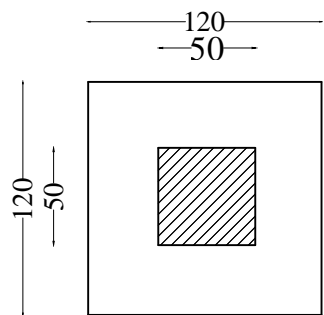


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>SECTION FOR WALL &amp; FOUNDATION</b>	REVISIONS					INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	<b>ARCHITECT</b>  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baaceag@yahoo.com Mobile: 0700 555 555 , 0700 554 475		<b>CLIENT</b>  <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	<b>RECIPIENT</b>
SCALE	1:25		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG	July-2008					
DRAWING NUMBER	BHC.ST-003							DESIGNED BY	Eng.Muradi	July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008					
							APPROVALS								
							PROJECT MANAGER								
							PROJECT DIRECTOR								

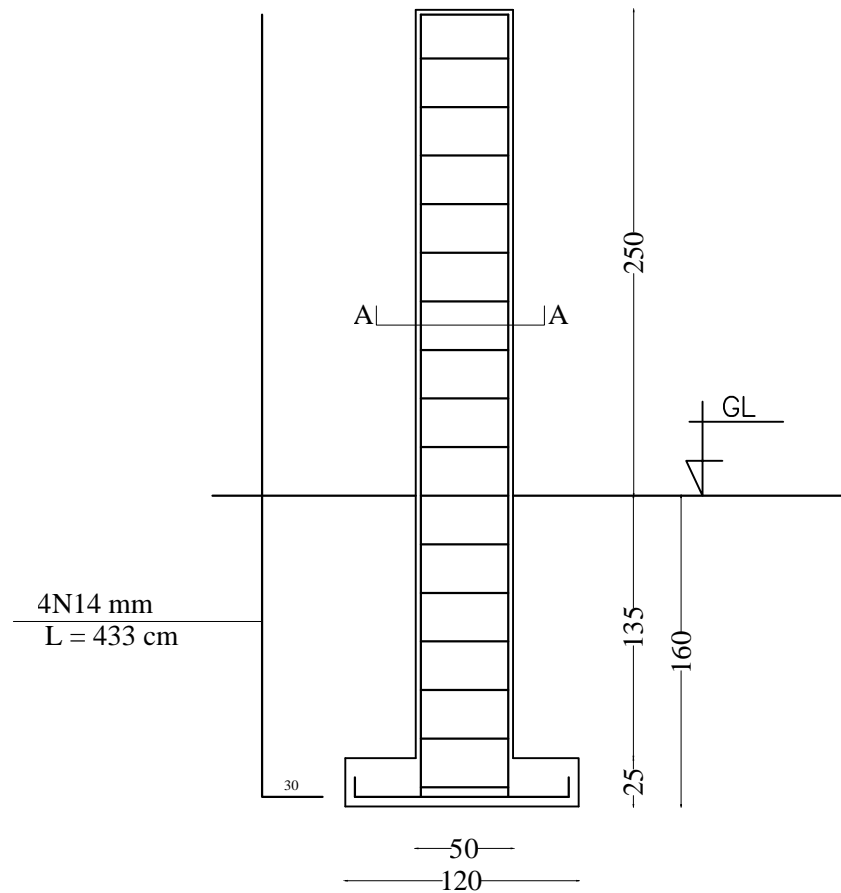


### Detail - X

CAD FILE		<div><div>BASIC HEALTH CLINIC ( BHC )</div><div>SLAB STEEL BARS DETAIL - Y</div></div>	REVISIONS					INITL	SIG.	DATE	<div><div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div></div>	<div><div>ARCHITECT</div><div><div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div><div><div>Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a></div><div>Mobile: 0700 355 685 , 0700 354 478</div></div></div><div></div><div><div>CLIENT</div><div>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</div></div><div>RECIPIENT</div></div>
SCALE	1:25,1:50		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG	July-2008		
DRAWING NUMBER	BHC.ST-006							DESIGNED BY	Eng.Muradi	July-2008		
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008		
								APPROVALS				
							PROJECT MANAGER					
							PROJECT DIRECTOR					

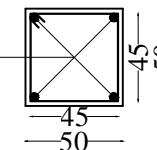


Plan of Main Gate RCC  
Columne and Footing

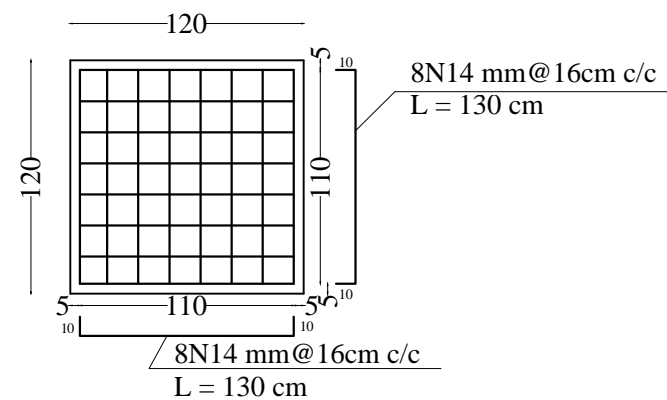
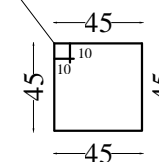


SEC-A-A

4N14 mm  
L = 433 cm



17Ø8 mm@25cm c/c  
L = 200 cm



8N14 mm@16cm c/c  
L = 130 cm

8N14 mm@16cm c/c  
L = 130 cm

# GENERAL NOTES

## 1. SYSTEM OF UNITS

- a. ALL DIMENSIONS, SPACING ETC. ARE IN CENTIMETER  
b. ALL ELEVATIONS ARE IN CENTIMETER

## 2. CONCRETE

a- MINIMUM COMPRESSIVE CUBE STRENGTH AT 28 DAYS OF ALL RE-INFORCED CONCRETE SHALL M250 FOR COLUMNS & FOUNDATION UNLESS OTHERWISE NOTED ON THE DRAWING,M200 FOR ALL OTHER MEMBERS OF STRUCTURE.

B- MINIMUM COMPRESSIVE CUBE STRENGTH AT 28 DAYS OF ALL BLINDING CONCRETE SHALL BE M100.

UNLESS OTHERWISE NOTED ON THE DRAWING.

## 3. REINFORCING STEEL

a- ALL REINFORCING STEEL FOR REINFORCED CONCRETE SHALL BE EITHER HOT ROLLED CONFORMING TO ASTM AII GRADE OR COLD WORKED STEEL CONFORMING TO AI WITH A MINIMUM PROOF STRESS OF 2700kg/cm2.

b- ALL LAP LENGTHS AND DEVELOPMENT LENGTHS OF REINFORCING BARS SHALL BE ACCORDING TO BS CODE.

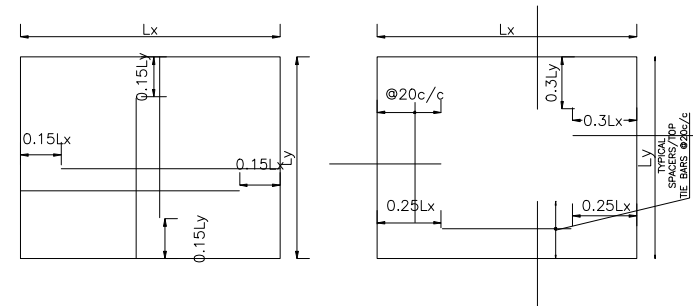
c- MOLDING SHALL BE TIED TO EXTERNAL MASONRY WALLS WITH 1CMØ TIES EVERY 60cm HORIZONTALLY AND VERTICALLY.(2700Kg/cm)

d- THE SHEAR REINFORCEMENT) IN ALL BEAMS/COLUMNS SHALL BE 2700kg/cm

## 4. CONCRETE PROTECTION TO REINFORCEMENT

MINIMUM CLEAR CONCRETE COVER TO REINFORCEMENT SHALL BE AS FOLLOW UNLESS OTHERWISE SPECIFIED ON THE DRAWING.

STRUCTURAL ELEMENT	COVER
FOOTING	7cm
SLABS,WALLS	2cm
COLUMNS & BEAMS	3cm



TYPICAL BOTTOM BAR ARRANGEMENT  
DETAILS FOR SLAB

TYPICAL TOP BAR ARRANGEMENT  
DETAILS FOR SLAB (BOTH WAYS)

## 5. AGGREGATE SIZE

MAXIMUM AGGREGATE SIZE SHALL BE AS FOLLOW UNLESS OTHERWISE APPROVED BY THE ENGINEER.

STRUCTURAL ELEMENT	MAX. AGGREGATE SIZE
RAFT	7cm
SLABS,WALLS	2cm
COLUMNS & BEAMS	2cm

## 6. LEVELS

THE LEVELS SHOWN ON STRUCTURAL DRAWINGS ARE STRUCTURAL FLOOR LEVELS. COORDINATE LEVELS WITH ARCHITECTURAL DRAWINGS

## 7. CONSTRUCTION JOINT

CONSTRUCTION JOINT SHALL GENERALLY BE FOLLOWED AS INDICATED ON THE DRAWING THE CONTRACTOR WILL USE CONSTRUCTION JOINTS ARRANGEMENT TO SUIT HIS REQUIREMENT WITH PRIOR APPROVAL OF THE ENGINEER. FOR THIS PURPOSE THE CONTRACTOR SHALL HAVE TO SUBMIT HIS PROPOSAL FOR THE APPROVAL OF THE ENGINEERS SUFFICIENTLY IN ADVANCE OF HIS SCHEDULED POURING DATE. ALL CONSTRUCTION JOINTS SHALL BE TREATED AS PER SPECIFICATIONS DIFFERENTIAL HEIGHT IN CONSTRUCTION SHALL NOT EXCEED 40 m.

## 8. TOP & BOTTOM REINFORCEMENT IN BEAM & RAFT

CUT LENGTH FOR TOP REINFORCEMENT SHOULD BE L/3 AND FOR BOTTOM REINFORCEMENT SHALL BE L/8 FROM SUPPORT FACE WHERE L IS CLEAR SPAN. OR AS SHOWN IN THE DRAWINGS.

## 9. LOCAL ADJUSTMENT

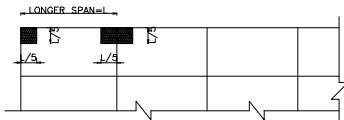
LOCAL ADJUSTMENT TO ACCOMMODATE FIXTURES/EMBLEMENTS OPENINGS MAY BE MADE AT SITE BUT SUBJECT TO THE APPROVAL OF THE ENGINEER, AS LONG AS IT WOULD NOT MATERIALLY EFFECT THE DESIGN.

## 10. TOLERANCES AND DIMENSIONS

BEFORE THE FORM WORK IS LAID AT SITE THE CONTRACTOR MUST VERIFY AND CHECK OVERALL DIMENSIONS OF THE STRUCTOR GIVEN IN THE STRUCTURAL DRAWINGS TO SEE IF THE FINISHED DIMENSION ELEVATION GIVEN ON THE DRAWING TALLY AFTER PROVIDING THE REQUIRED FINISH ENGINEER REPRESENTATIVE SHALL VERIFY THE MEASUREMENT OF STRUCTURAL SIZES AND ELEVATION BE RECORDED IN RELEVANT FOUR STEPS TO BE PUT UP BY THE CONTRACTOR AND TO BE APPROVED BY THE ENGINEER BEFORE EXECUTION PERMISSION TO PROCEED, SHALL NOT BE GRANTED IF DEVIATIONS ARE MORE THAN PERMISSIBLE TOLERANCES.

## 11. TYPICAL SLAB REINFORCEMENT DETAIL

ALL SLAB CORNERS WITH MAIN SPANS ABOVE 6m SHALL HAVE EXTRA REINFORCEMENT AS INDICATED-3/4 OF MAIN REINFORCEMENT) WHERE L= LONGER SPAN



NOTE-11, FOR SLAB

# DETAILING OF REINFORCEMENT

## 1. EMBODIMENT LENGTHS

UNLESS OTHERWISE STATED ON THE DRAWINGS, THE FOLLOWING EMBODIMENT LENGTHS SHALL BE PROVIDED.

BAR SIZE CONCRETE STRENGTH	EMBODIMENT LENGTH IN centimeter					
	ø8	N10	N12	N14	N16	N18
250kg/cm2	20d	20d	25d	30d	35d	40d

## 2. SPACING

THE FIRST AND LAST BARS IN WALLS,SLABS,STIRRUPS IN BEAMS AND TIES IN COLUMNS SHOULD START AND END AT A MAXIMUM OF ONE HALF ADJACENT BAR SPACING.

## 3. ACCESSORIES

BAR SUPPORTS,SPACERS AND OTHER ACCESSORIES ARE NOT SHOWN ON THE DRAWING, THE RECOMMENDATION OF ACI,BS OR OTHER SUPPORTING SYSTEM AS APPROVED BY THE ENGINEER MAY BE USED(SPACERS TO BE #3@20cm c/c & NOT TO BE PROVIDED IN THE AREA WHERE NEGATIVE REINFORCEMENT EXISTS).

## 4. LAP LENGTH

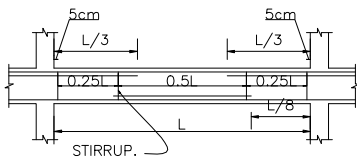
UNLESS OTHERWISE STATED ON THE DRAWING FOLLOWING LAP LENGTHS SHALL BE PROVIDED.

BAR SIZE CONCRETE STRENGTH	LAP LENGTHS IN centimeter					
	ø8	N10	N12	N14	N16	N18
250kg/cm	25d	30d	35d	35d	40d	40d

EXCEPT WHEN OTHERWISE SHOWN ON THE DRAWING, WHENEVER REINFORCING BARS OF DIFFERENT SIZES ARE TO BE SPLICED,LAP LENGTH SHALL BE GOVERNED BY THE SMALLER TO THE TWO BARS.

## NOTE:-

THE BEARING CAPACITY OF SOIL AS PER SOIL INVESTIGATION REPORT IS TAKEN AS ( 1.35 ) kg/sq-centimeter



NOTE-8 FOR BEAM / RAFT  
TYPICAL SPACES FOR STIRRUP

# THERMAL INSULATION WORKS:-

## ROOF:-

BEFORE TO FIXED THE GLASS WOOL ON SLAB. THE SLAB SHOULD BE CLEANED .

THE GLASS WOOL SHOULD BE 10CM THICK WITH ALUMINUM SHEET.

THE ALUMINUM LAYER SHOULD BE FACED ON CONCRETE SURFACE.

UNDER THE GUTTER (ON TOP OF OVER HANG) BOTH SIDE OF THE BUILDING SHOULD BE USE EPS 30KG/M3.

THE EPS SHOULD BE PRE INSTALLED ON TOP OF RCC SLAB ACCORDING TO THE DETAILS.

## WALL:-

THE EXTERIOR WALLS CONTAIN AS BELOW:

MAIN BRICK WALL 35CM

POLYSTYRENE SHEET 5CM THICK

AIR GAP 1CM

THE THICKNESS OF PROTECTION BRICK WALL SHOULD BE 11CM .

JUNCTION OF THE WALL SHOULD BE AT EVERY EACH 1M HEIGHT BETWEEN PROTECTION WALL AND MAIN 35CM BRICK WALL ( SEE DETAILS )

## OPENING:-

THE AIR GAP SHOULD BE 1CM BETWEEN THE POLYSTYRENE SHEET (EPS)

AND PROTECTION BRICK WALL.

## WINDOWS AND DOORS :-

ALL EXTERNAL WINDOWS AND EXTERNAL DOORS SHOULD BE DOUBLE GLASS AND PROPERLY SEALED WITH SILICON.

## NOTE:-

THE POLYSTYRENE SHEET FOR THE WALL IS WITH 5CM THICK AND 15KG/M3 DENSITY.

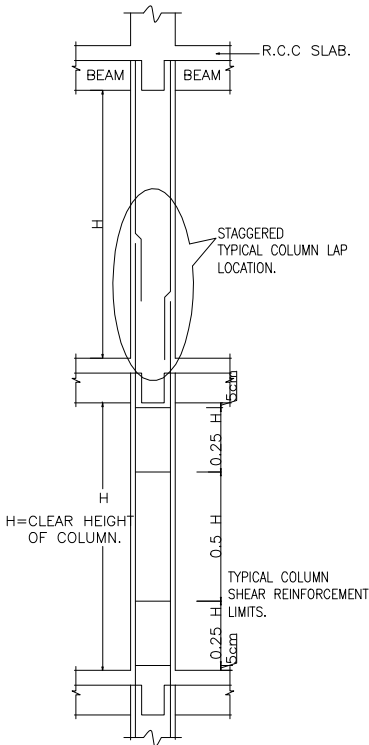
THE POLYSTYRENE UNDER GI SHEET ON RCC SLAB SHOULD BE 10CM THICK

IN TWO OVERLAP LAYERS WITH ( 20-30 ) Kg/m3.


GLASS WOOL ON THE TOP OF RCC SLAB UNDER GI SHEET SHOULD BE 10CM THICK

VAPOR BARRIER ( ALUMINUM SHEET ) WILL TAKE PLACE ON RCC SLAB.

RCC FRAME ON EXTERNAL WALLS SHOULD BE ACCORDING TO ENGINEERING DRAWING AND POLYSTYRENE SHOULD BE PRE INSTALLED IN THE CONCRETE FRAME AS PER DETAILS.




TYPICAL COLUMN REINFORCEMENT DETAIL

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>GENERAL NOTES</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	<b>ARCHITECT</b>  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baceag@yahoo.com Mobile: 0700 225 000 , 0700 204 470		<b>CLIENT</b>  <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	<b>RECIPIENT</b>
SCALE	NTS		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July--2008					
DRAWING NUMBER	BHC.ST-001							DESIGNED BY	Eng.Muradi		July--2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July--2008					
							APPROVALS									
							PROJECT MANAGER									
							PROJECT DIRECTOR									




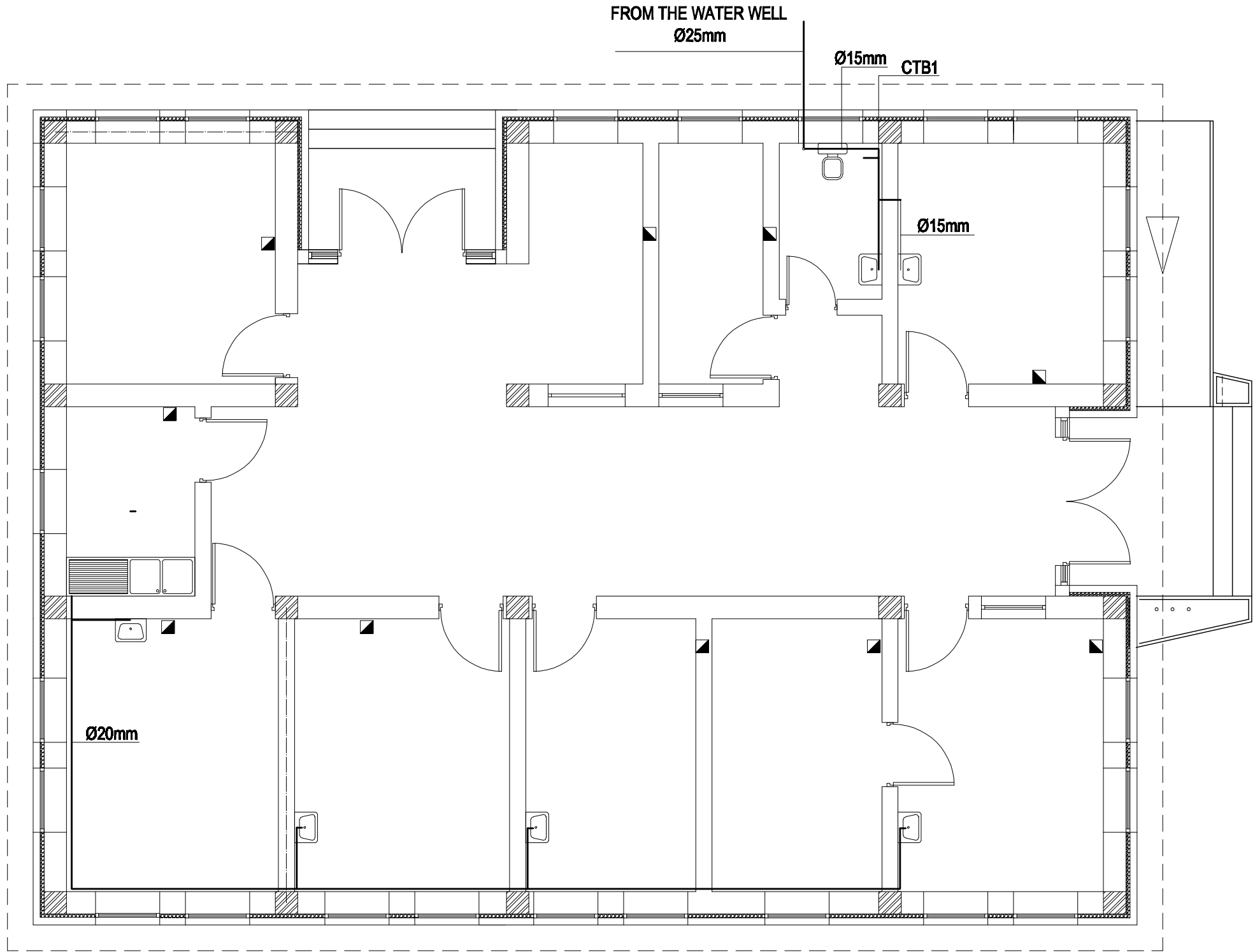
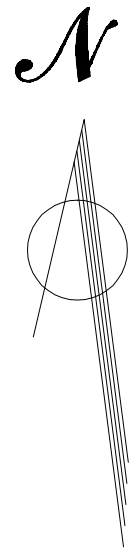
Calculation of steel for Frames of Basic Health Clinic											
SCHEDULE OF BARS											
S. No	Description	length	Diameter of Item (mm)	Number of bars	Number of Item	Total length	Ø6	Ø10	Ø12	Ø14	Ø16
							Length (m)	Length (m)	Length (m)	Length (m)	Length (m)
1	Frame-1&2	11.25	16	3	4	135					135.00
2		7.20	16	3	4	86.40					86.40
3		1.70	16	2	4	13.60					13.60
4		2.45	16	4	4	39.20					39.20
5		3.20	16	6	4	76.80					76.80
6		1.75	16	3	4	21.00					21.00
7		6.95	16	2	4	55.60					55.60
8		3.45	16	2	4	27.60					27.60
9		8.05	16	4	4	128.80					128.80
10		2.45	16	1	4	9.80					9.80
11		10.10	16	4	4	161.60					161.60
12		8.40	16	2	4	67.20					67.20
a		1.85	10	121	4	895.40		895.4			
	Frame 3 &4										0.00
1		7.15	16	3	5	107.25					107.25
2		6.40	16	2	5	64.00					64.00
3		2.00	16	2	5	20.00					20.00
4		2.75	16	2	5	27.50					27.50
5		2.60	16	2	5	26.00					26.00
6		1.90	16	2	5	19.00					19.00
7		4.32	16	21	5	453.60					453.60
8		2.55	16	1	5	12.75					12.75
9		3.90	16	2	5	39.00					39.00
10		4.65	16	4	5	93.00					
11		4.90	16	4	5	98.00		98			
c		1.85	10	90	5	832.50		832.5			
	G.Rings-1	31.00	10	4	2	248.00		248			
						0.00					
	G.Rings-2	17.50	10	4	2	140.00		140			
		13.50	10	4	5	270.00		270			
	Columns										
	C-1	2.15	14	4	14	120.40				120.40	
		2.80	14	4	14	156.80				156.80	
		3.30	14	4	14	184.80				184.80	
		2.85	14	4	14	159.60				159.60	
	C-2	2.15	14	4	6	51.60				51.60	
		2.80	14	4	6	67.20				67.20	
		3.30	14	4	6	79.20				79.20	
		2.85	14	4	6	68.40				68.40	
	Strips fro Columns	1.30	10	36	20	936.00		936.00			
	Footings										
	F-1	1.55	14	11	14	238.70				238.70	
		1.55	14	11	14	238.70				238.70	
	F-2	1.75	14	13	6	136.50				136.50	
		1.75	14	13	6	136.50				136.50	
	TOTAL LENGTH OF BARS						0.00	3419.90	0.00	1638.40	1591.70
	WEIGHT PER LENGTH OF BARS IN KG						0.22	0.617	0.89	1.21	1.58
	TOTAL WEIGHT OF BARS						0.00	2110.078	0.00	1981.35	2514.12
	5% WAST FOR BAR						0.00	105.504	0.00	99.07	125.71
	TOTAL WEIGHT OF BARS						0.00	2215.582	0.00	2080.42	2639.83
	GRAND TOTAL OF WEIGHT OF BARS							6935.83			Kg

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>STEEL BAR SCHEDULE</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC )  KABUL - AFGHANISTAN</b>	<b>ARCHITECT</b>  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>    Email: baceag@yahoo.com Mobile: 0700 305 000 , 0700 304 470	<b>CLIENT</b>  <b>MINISTRY OF PUBLIC HEALTH  AFGHANISTAN</b>	<b>RECIPIENT</b>
SCALE	NTS		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008				
DRAWING NUMBER	BHC.ST-016							DESIGNED BY	Eng.Muradi		July-2008				
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008				
								APPROVALS							
								PROJECT MANAGER							
								PROJECT DIRECTOR							


Calculation of Steel for Guard Room & Toilet facility of Basic Health Clinic										
SCHEDULE OF BARS										
S. No	Description	length	Diameter of Item (mm)	Number of bars	Number of Item	Total length	Ø6	Ø8	Ø10	Ø12
							Length (m)	Length (m)	Length (m)	Length (m)
	Guard Room	5.15	10	10	1	51.50			51.50	
		4.05	10	10	1	40.50			40.50	
		5.05	10	10	1	50.50			50.50	
		3.90	10	10	1	39.00			39.00	
		1.80	10	5	4	36.00			36.00	
		15.50	12	6	1	93.00				93.00
		16.50	8	5	1	82.50		82.50		
	Strips									
	On top of wall	2.05	10	80	1	164.00			164.00	
	On top of wall	1.55	10	60	1	93.00			93.00	
	On Stone wall	15.00	10	4	4	240.00			240.00	
	On Stone wall	1.50	10	76	1	114.00			114.00	
	Generator Room									
	slab	3.40	10	16	1	54.40			54.40	
		2.80	10	16	1	44.80			44.80	
		1.10	10	16	4	70.40			70.40	
	Ring					0.00			0.00	
	On top of wall	11.00	10	4	4	176.00			176.00	
	On Stone wall	11.00	10	4	4	176.00			176.00	
		1.20	10	100	1	120.00			120.00	
	Toilets									
	Roof Slab	5.50	8	3	2	33.00		33.00		
		4.50	8	4	2	36.00		36.00		
		2.50	10	11	2	55.00			55.00	
		2.05	10	11	2	45.10			45.10	
		0.80	10	11	2	17.60			17.60	
		2.00	10	11	2	44.00			44.00	
		1.85	10	11	1	20.35			20.35	
		1.00	10	10	1	10.00			10.00	
	floor slab	4.70	10	7	1	32.90			32.90	
		4.65	10	7	1	32.55			32.55	
		2.95	10	11	1	32.45			32.45	
		2.95	10	11	1	32.45			32.45	
		0.95	10	7	2	13.30			13.30	
		0.70	10	11	2	15.40			15.40	
	Ring beam on the stone wall									
		14.50	10	4	1	58.00			58.00	
		1.00	8	60	1	60.00		60.00		
	on Brick wall	14.50	10	4	1	58.00			58.00	
		1.00	8	60	1	60.00		60.00		
		1.70	10	74	1	125.80			125.80	
		1.00	8	60	1	60.00		60.00		
	TOTAL LENGTH OF BARS						0.00	82.50	828.50	93.00
	WEIGHT PER LENGTH OF BARS IN KG						0.222	0.395	0.617	0.888
	TOTAL WEIGHT OF BARS						0.000	32.58	511.18	82.63
	5% WAST FOR BAR						0.000	1.63	25.56	4.13
	TOTAL WEIGHT OF BARS						0.000	34.21	536.74	86.76
	GRAND TOTAL OF WEIGHT OF BARS						657.71			Kg

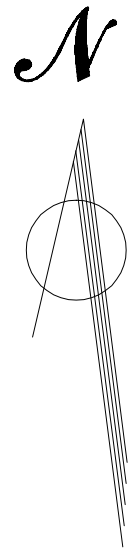
Calculation of Steel for Slab of Basic Health Clinic										
SCHEDULE OF BARS										
S. No	Description	length (m)	Diameter of Item (mm)	Num ber of Item	Number of Item	Total length (m)	Ø6	Ø8	Ø10	Ø12
							Length (m)	Length (m)	Length (m)	Length (m)
	Slabs -1 -5									
P1		5.45	10		32	174.40			174.40	
P2		4.05	10		32	129.60			129.60	
P3		6.50	10		57	370.50			370.50	
P4		5.05	10		58	292.90			292.90	
P5		6.40	10		32	204.80			204.80	
P6		4.05	10		33	133.65			133.65	
P7		8.05	10		31	249.55			249.55	
P8		6.25	10		33	206.25			206.25	
P9		7.00	10		31	217.00			217.00	
P10		3.95	10		33	130.35			130.35	
P11		5.90	10		51	300.90			300.90	
P12		5.75	10		54	310.50			310.50	
P13		6.00	10		40	240.00			240.00	
P14		4.50	10		43	193.50			193.50	
P15		1.90	10		60	114.00			114.00	
P16		2.10	10		37	77.70			77.70	
P17		2.70	10		120	324.00			324.00	
P18		2.00	10		170	340.00			340.00	
P19		2.20	10		136	299.20			299.20	
P20		2.30	10		12	27.60			27.60	
P21		12.60	8		28	352.80		352.80		
P22		17.10	8		37	632.70		632.70		
P23	Cantilever	2.95	10		214	631.30			631.30	
P24	Cantilever	63.50	8		6	381.00		381.00		
P25	Thermal insulation steel bars	63.00	6	3	3	567.00	567.00			
P26		0.55	6		630	346.50	346.50			
P27	Cantilever on Exit	3.45	12	1	26	89.70				89.70
P28	Cantilever on Exit	3.85	8	1	7	26.95		26.95		
	TOTAL LENGTH OF BARS						913.50	1393.45	4967.70	89.70
	WEIGHT PER LENGTH OF BARS IN KG						0.222	0.39	0.62	0.89
	TOTAL WEIGHT OF BARS						202.91	550.25	3065.07	79.70
	5% WAST FOR BAR						10.15	27.51	153.25	3.98
	TOTAL WEIGHT OF BARS						213.05	577.76	3218.32	83.68
	GRAND TOTAL OF WEIGHT OF BARS						4092.82		Kg	

CAD FILE		<div>BASIC HEALTH CLINIC ( BHC )</div> <div>STEEL BAR SCHEDULE</div>	REVISIONS						INITL	SIG.	DATE	<div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div>	<div>ARCHITECT</div> <div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div> <div></div> <div>Health baeeag@yahoo.com</div> <div>Mobile: 0700 285 685 , 0700 284 476</div>	<div>CLIENT</div> <div>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</div>	RECIPIENT
SCALE	NTS		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG	July-2008					
DRAWING NUMBER	BHC.ST-015							DESIGNED BY	Eng.Muradi	July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim	July-2008					
							APPROVALS								
							PROJECT MANAGER								
							PROJECT DIRECTOR								

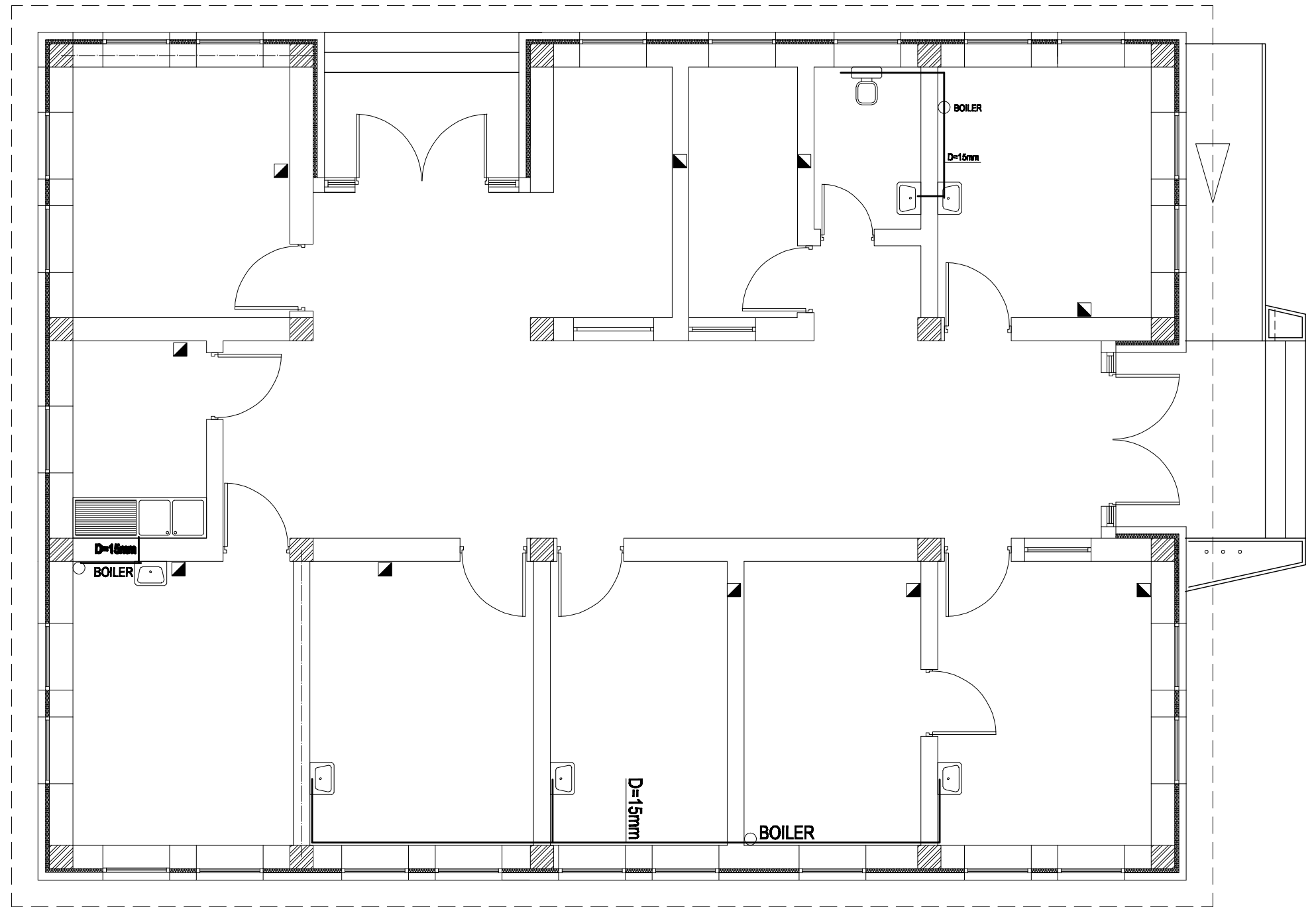



**1** GROUND FLOOR COLD WATER SYSTEM  
SCALE =1/75

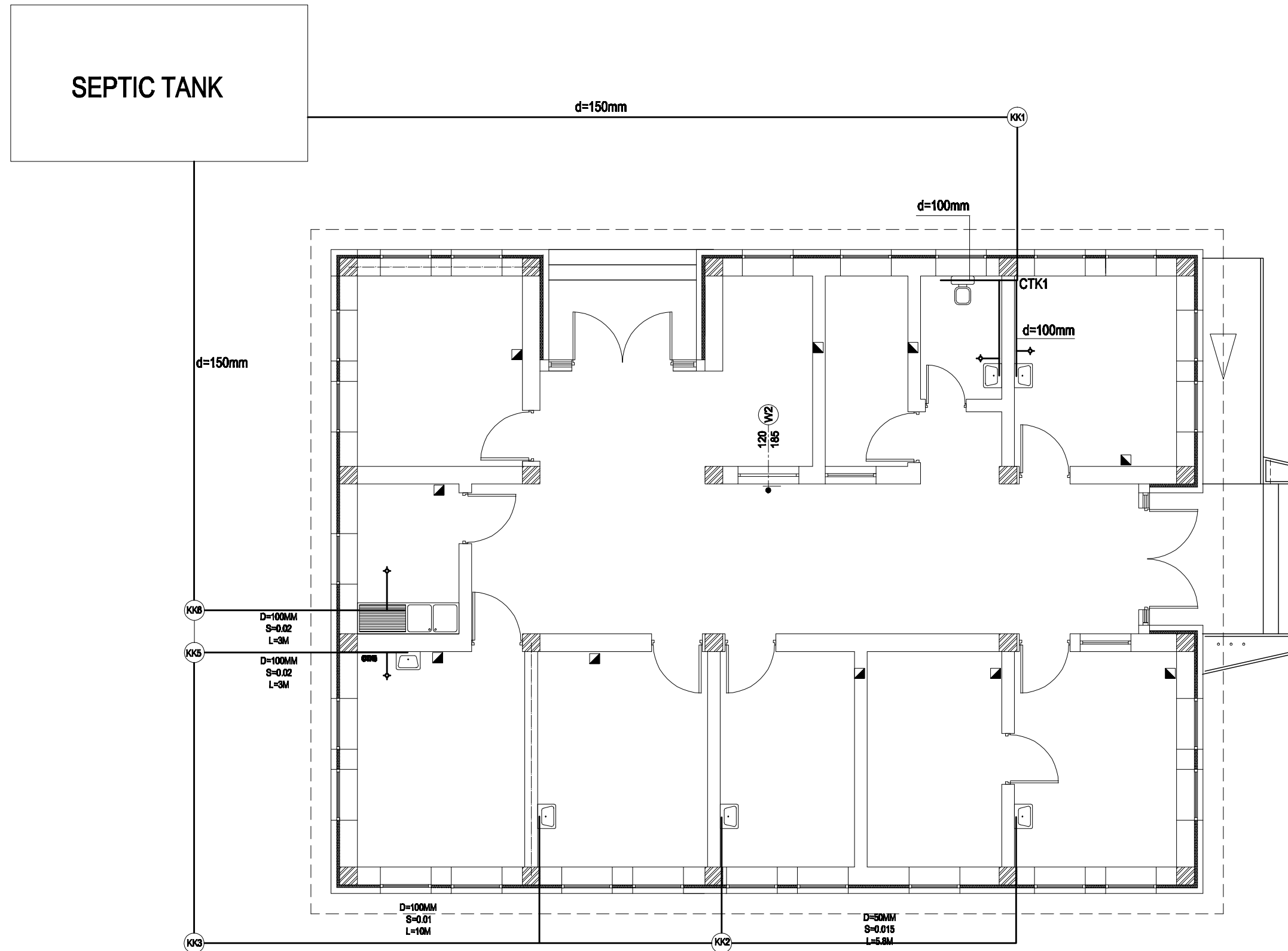
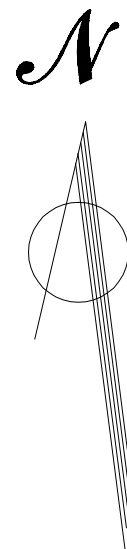
CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>GROUND FLOOR COLD WATER SYSTEM</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC )  KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: baceag@yahoo.com Mobile: 0700 335 808 , 0700 304 478 	CLIENT <b>MINISTRY OF PUBLIC HEALTH  AFGHANISTAN</b>	RECIPIENT
SCALE	<b>1:75</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008				
DRAWING NUMBER	<b>BHC.WA-001</b>							DESIGNED BY	Eng.A.Samad		July-2008				
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008				
								APPROVALS							
								PROJECT MANAGER							
							PROJECT DIRECTOR								




**1** HOT WATER SYSTEM  
SCALE = 1/75



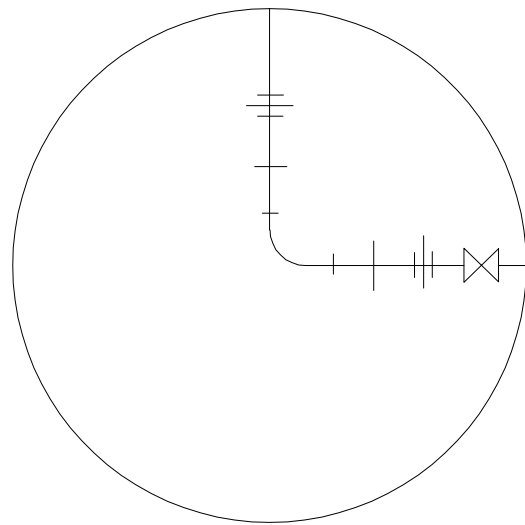
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SCALE	1:75		NO.	REVISION	NAME	INITL	DATE	PRODUCED BY	BaCEAG		July-2008						
DRAWING NUMBER	BHC.WA-003							DESIGNED BY	Eng.A.Samad		July-2008						
								CHECKED BY	Eng.A.Karim		July-2008						
								APPROVALS									
PROJECT NUMBER							PROJECT MANAGER										
							PROJECT DIRECTOR										



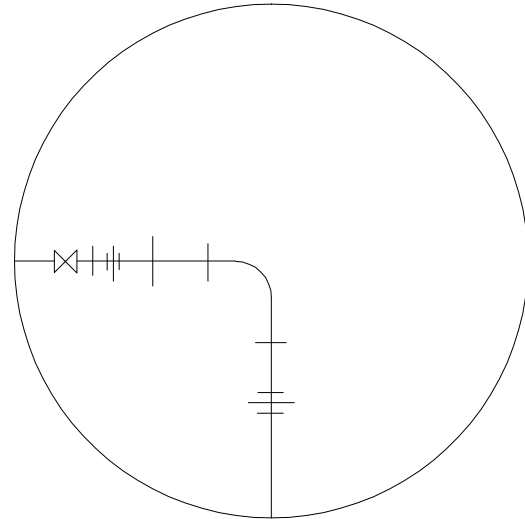
**1 DRAINAGE SYSTEM PLAN**  
**SCALE =1/75**

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )  DRAINAGE SYSTEM PLAN</b>	REVISIONS					INITL	SIG.	DATE	<b>BASIC HEALTH  CLINIC ( BHC )  KABUL - AFGHANISTAN</b>	ARCHITECT <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0799 335 686 , 0799 304 475		CLIENT <b>MINISTRY OF PUBLIC HEALTH  AFGHANISTAN</b>	RECIPIENT
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DRAWING NUMBER	<b>BHC.WA-002</b>							DESIGNED BY	Eng.A.Samad	July-2008					
PROJECT NUMBER							CHECKED BY	Eng.A.Karim	July-2008						
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							PROJECT MANAGER								
							PROJECT DIRECTOR								

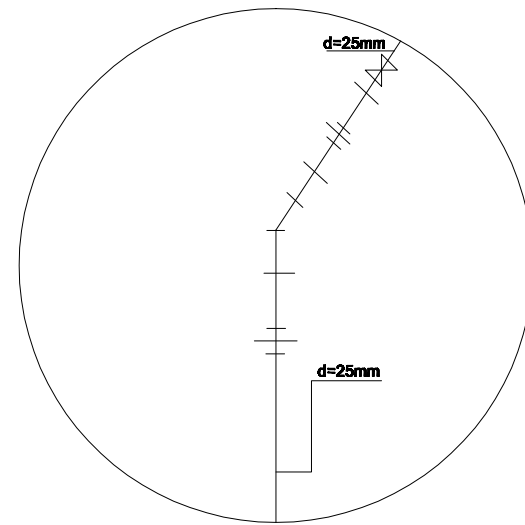




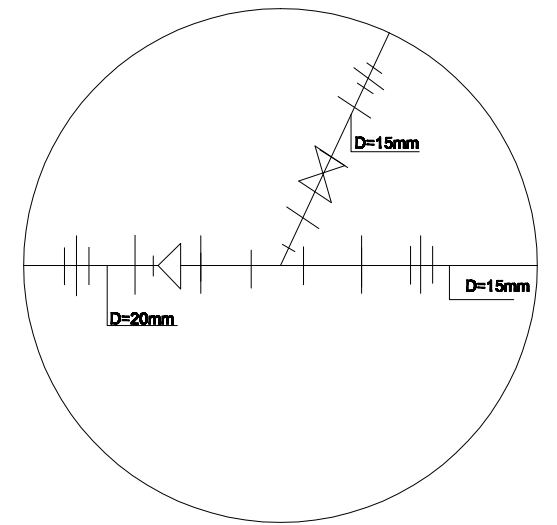
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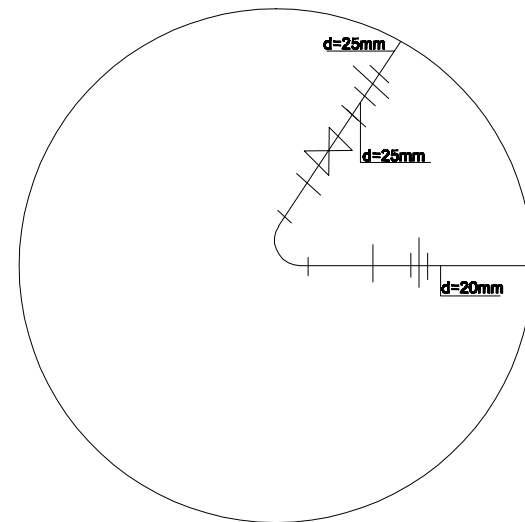
DETAIL A



DETAIL C



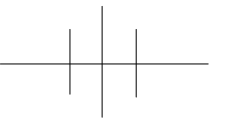
DETAIL D



DETAIL E

## LEGEND:

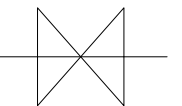
1 - union...



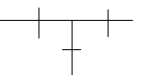
2 -joint...



3 -valve...



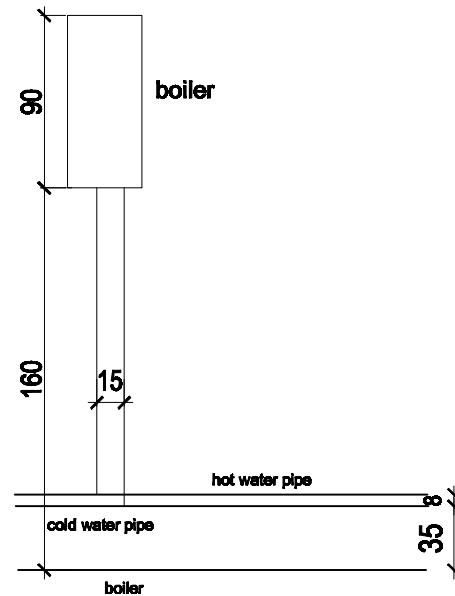
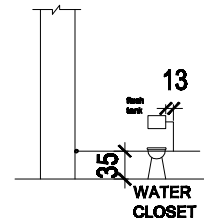
4 -Tee...




5 -Elbow...

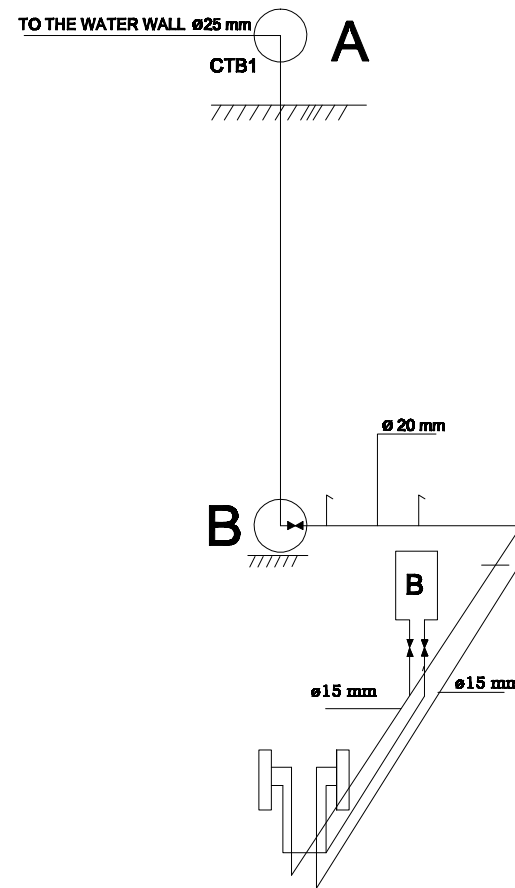
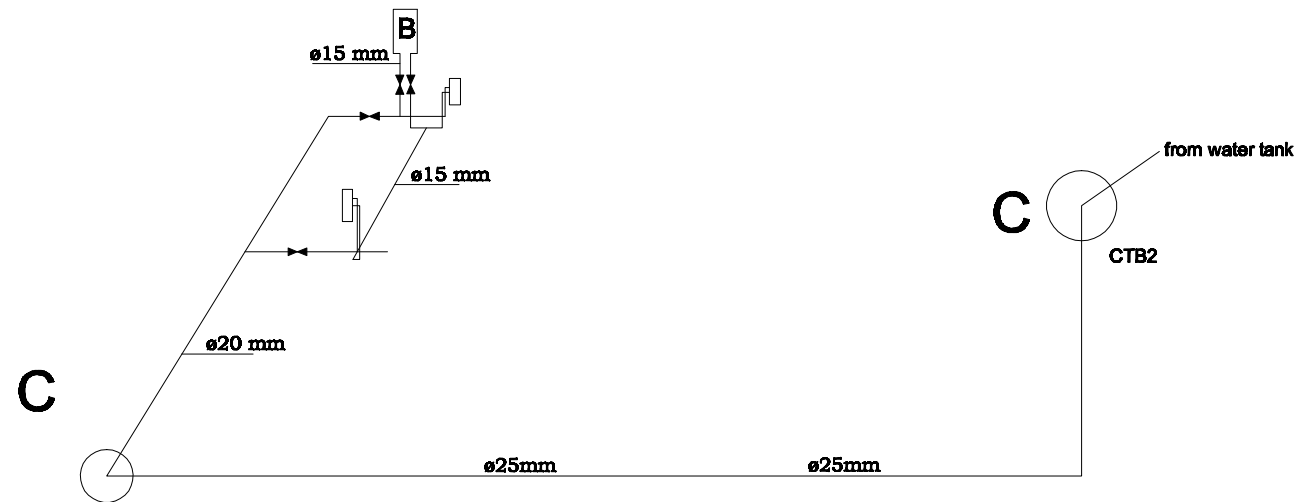


6 -Reducer







1 DETAILS  
SCALE=NTS


CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>DETAILS</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH  CLINIC ( BHC )  KABUL - AFGHANISTAN</b>	ARCHITECT  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a> Mobile: 0799 335 686 , 0799 304 476		CLIENT  <b>MINISTRY OF PUBLIC HEALTH  AFGHANISTAN</b>	RECIPIENT
SCALE	<b>NTS</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008					
DRAWING NUMBER	<b>BHC.WA-007</b>							DESIGNED BY	Eng.A.Samad		July-2008					
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008					
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								PROJECT MANAGER								
							PROJECT DIRECTOR									

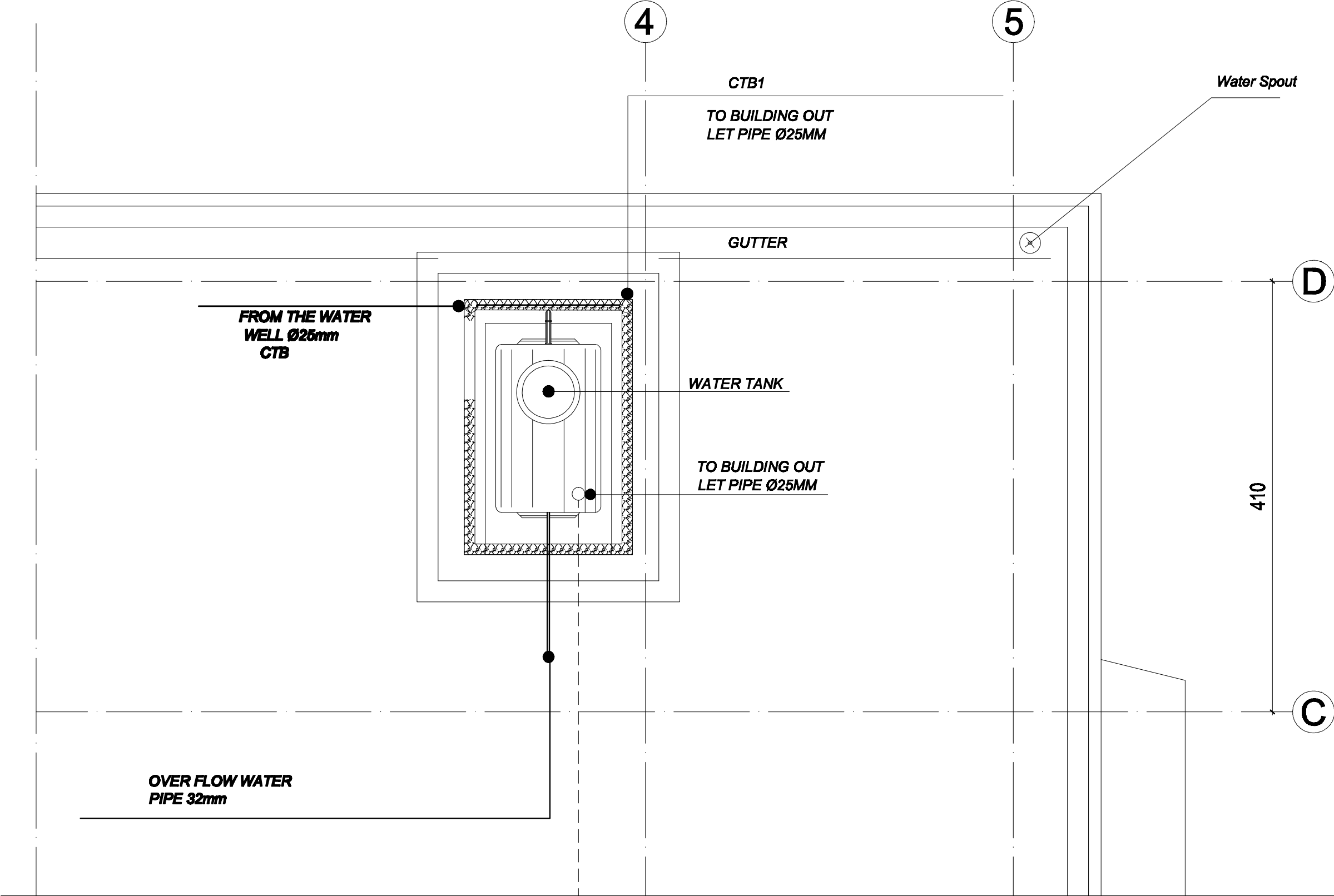


#### LEGEND:


- 1 - cold water piping... ———
- 2 -Hot water piping... ———
- 3 -Water closet... 
- 4 -Lavatory... 
- 5 -Boiler... 
- 6 -Valve .... 

**1** GROUND FLOOR ISO.WATERSUPPLY.SHEME  
SCALE = 1/80

CAD FILE		<div><div><div>BASIC HEALTH CLINIC ( BHC )</div><div>GROUND FLOOR ISO. WATERSUPPLY.SHEME</div></div></div>	REVISIONS				INITL	SIG.	DATE	<div><div><div>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</div></div><div><div>ARCHITECT</div><div><div>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</div><div><div>Email: <a href="mailto:baceag@yahoo.com">baceag@yahoo.com</a></div><div>Mobile: 0799 336 666 , 0799 304 476</div></div></div><div><div>CLIENT</div><div><div>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</div><div></div></div><div>RECIPIENT</div></div></div></div>	
SCALE	1:75		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008
DRAWING NUMBER	BHC.WA-008							DESIGNED BY	Eng.A.Samad		July-2008
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008
								APPROVALS			
								PROJECT MANAGER			
							PROJECT DIRECTOR				




**1** WATER TANK  
SCALE= 1/40

CAD FILE		<b>BASIC HEALTH CLINIC ( BHC )</b>  <b>WATER TANK SCALE= 1/40</b>	REVISIONS						INITL	SIG.	DATE	<b>BASIC HEALTH CLINIC ( BHC ) KABUL - AFGHANISTAN</b>	ARCHITECT  <b>BaCEAG CONSULTATIVE ENGINEERING &amp; ARCHITECTURAL GROUP</b>  Email: <b>baceag@yahoo.com</b> Mobile: <b>0799 335 686 , 0799 304 478</b>		CLIENT  <b>MINISTRY OF PUBLIC HEALTH AFGHANISTAN</b>	RECIPIENT			
SCALE	<b>1:40</b>		NO.	REVISION	NAME	INITL.	DATE	PRODUCED BY	BaCEAG		July-2008								
DRAWING NUMBER	<b>BHC.WA-005</b>							DESIGNED BY	Eng.A.Samad		July-2008								
PROJECT NUMBER								CHECKED BY	Eng.A.Karim		July-2008								
								APPROVALS											
								PROJECT MANAGER											
								PROJECT DIRECTOR											

# Digging bore well by local method

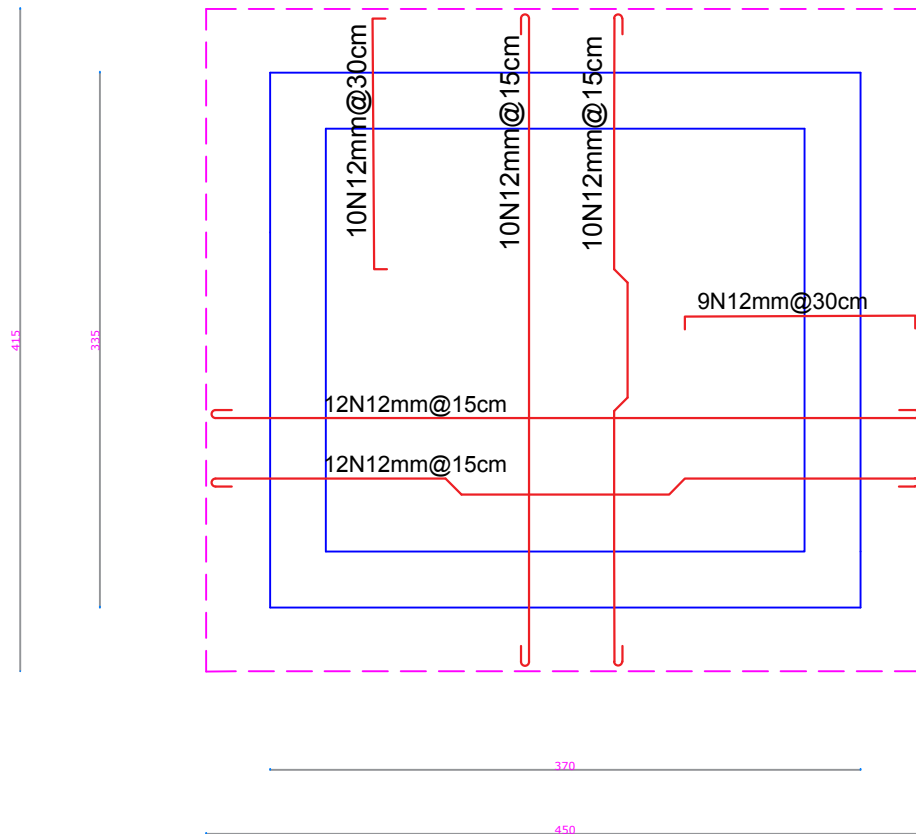
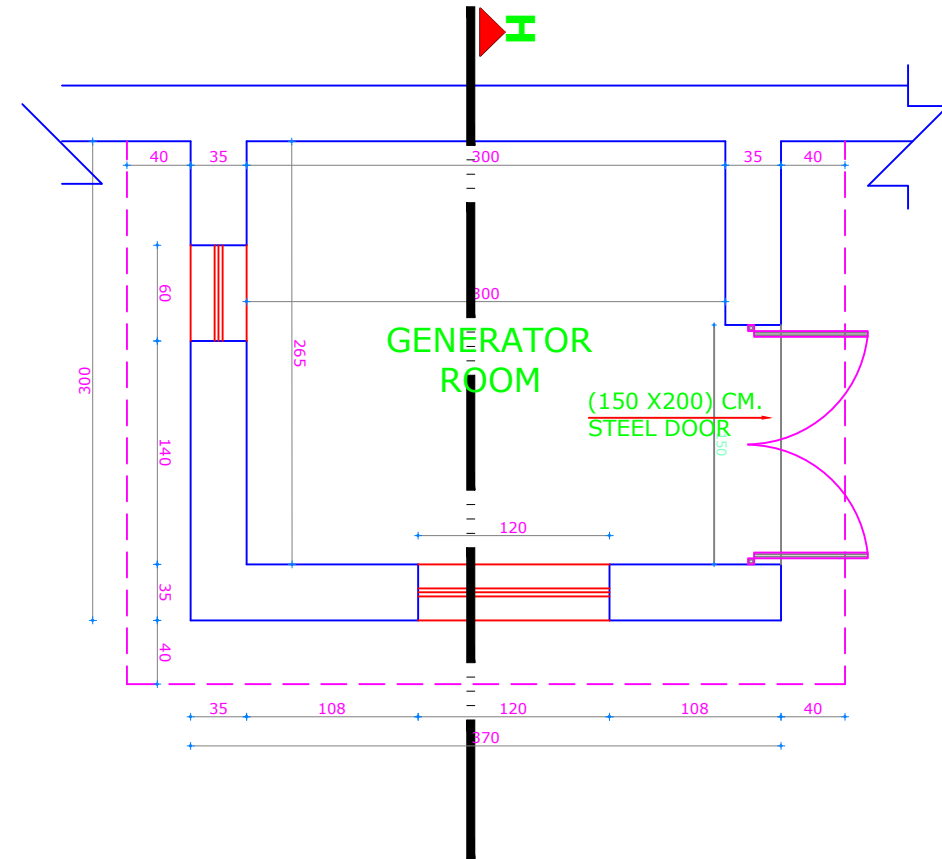
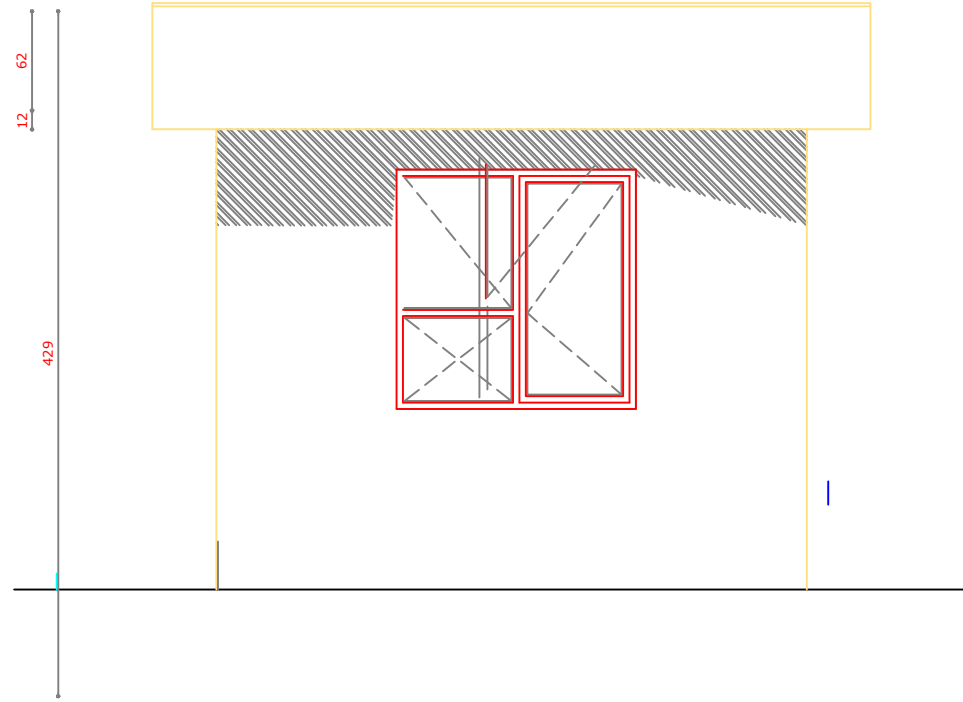
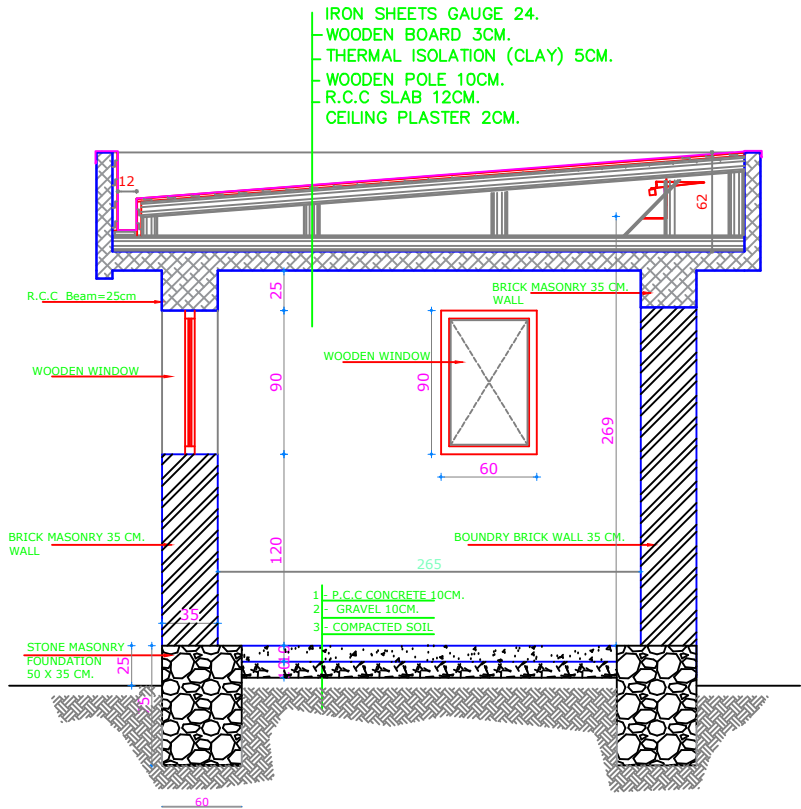
The diagram illustrates the construction of a bore well by the local method. It shows a vertical cross-section of the well shaft. The ground level (G.L.) is marked as 0.00. The well is constructed using an 8-inch PVC class C pipe with 9 bars. The shaft is filled with a gravel pack of (3-6mm) fraction size natural or river gravel. A filter pipe with 1mm slot opening Class(C) is installed at the bottom. The well is capped with an 8-inch diameter cap. The surrounding soil layers are identified as Clayey silt, Coarse sand, Clay, Silty clay, and Coarse sand and fine gravel. A water level (W.L.) measure point is indicated at the top of the well. The static water level (S.W.L.) is shown within the well. The casing is sealed with clay seals at intervals of xxm. The filter pipe is also sealed with clay seals at intervals of xxm. The well is capped with an 8-inch diameter cap. The overall diameter of the well is 9 inches.

UNHCR Afghanistan						
Project Code		ORG-000-000				
Project Title		New Construction of drilling in BHC				
Drawing Title		Plan & front preview				
Project Location		Oruzghan City				
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.				00 of 00
Sign						Scales:
Date						1:100

 <b>UNHCR</b>   Afghanistan <small>The UN Refugee Agency</small>																																		
Project Code		ORG-000-000																																
Project Title		New Construction of drilling in BHC																																
Drawing Title		Plan & front preview																																
Project Location		Oruzghan City																																
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Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:																												
Name	Eng.Amir M.	Eng.Amir M.				00 of 00																												
Sign						Scales:																												
Date						1:100																												

# Plan & section of Generator Room for BHC

## SI:100



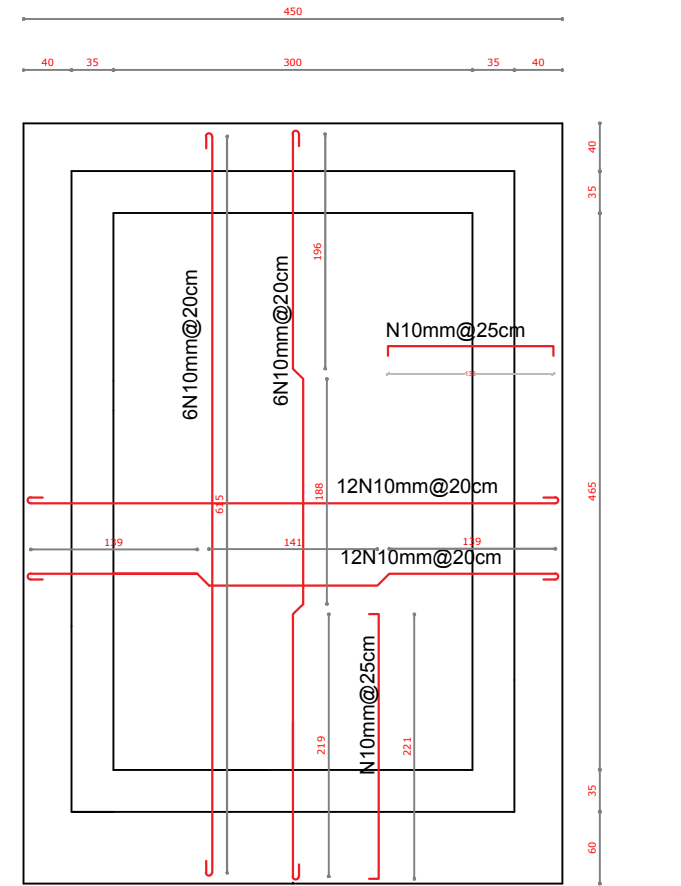
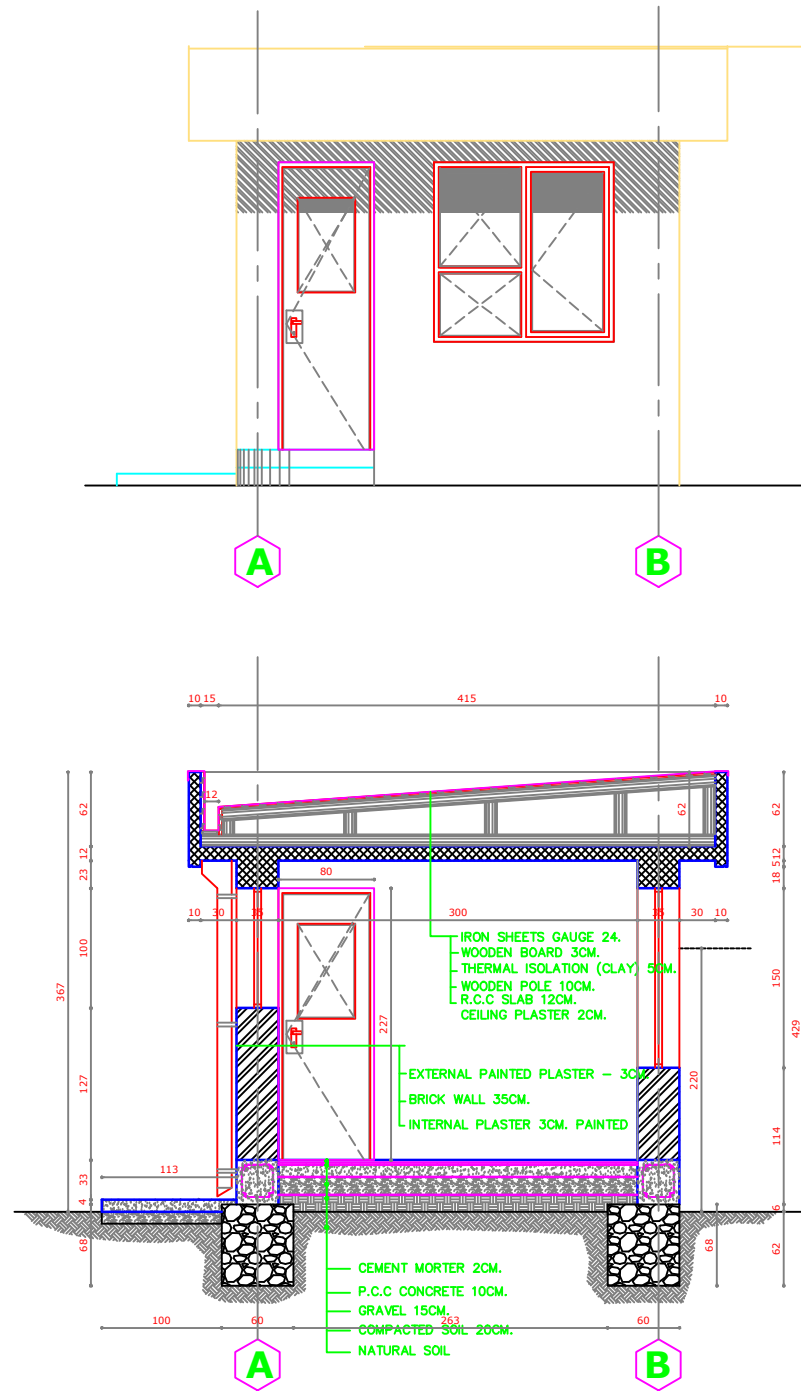
### Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1)  $R_a = 2100 \text{ Kg/cm}^2$ .
- 8-The curing must be not less than (28) days.

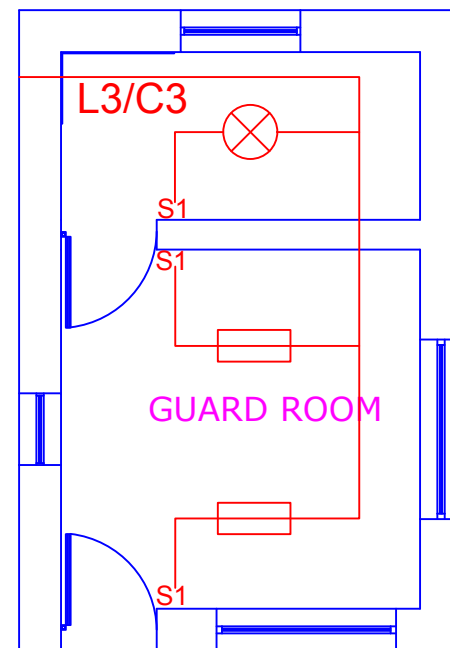
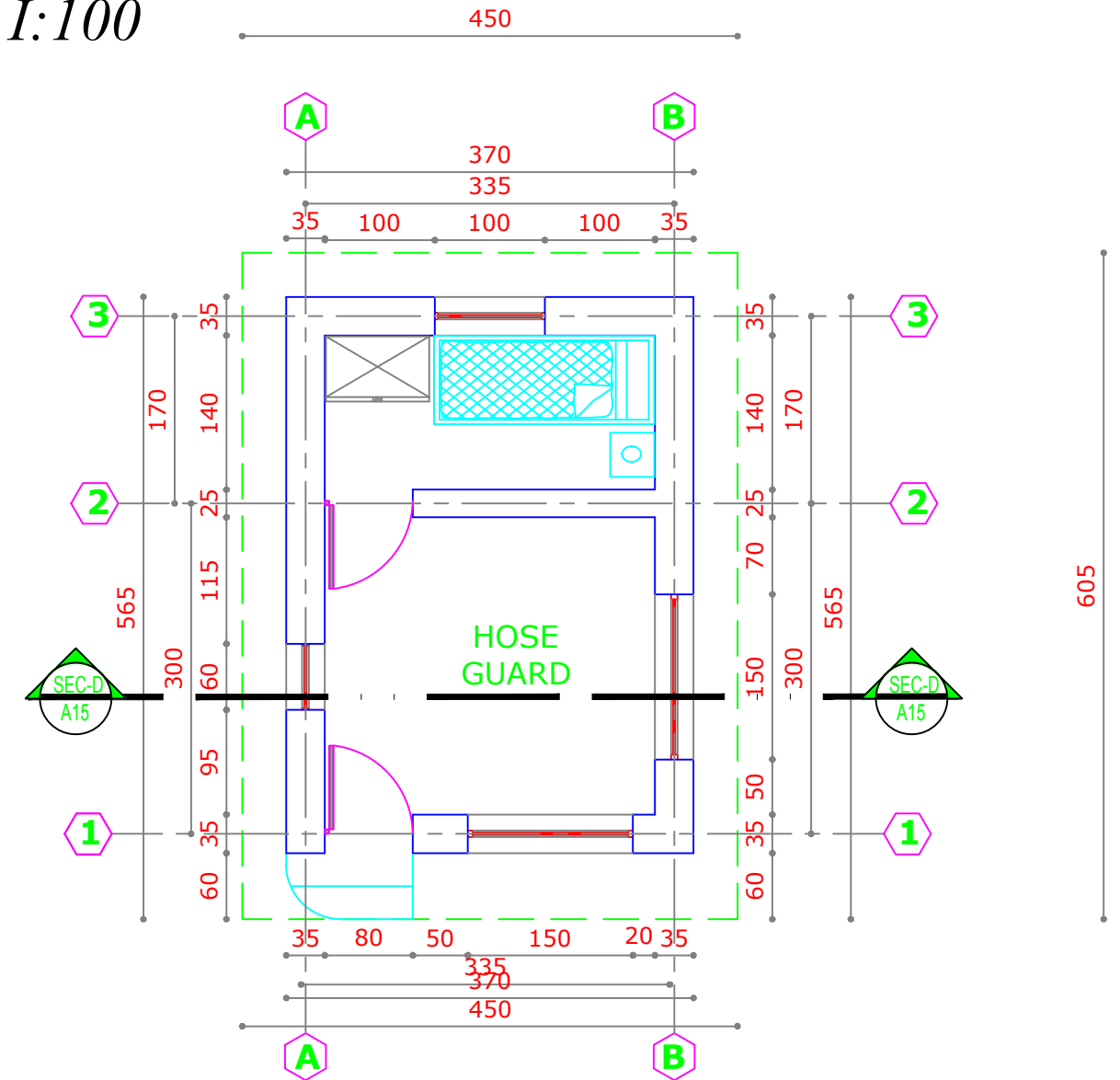
UNHCR Afghanistan						NEMROZ BHC PROJECT	
Project Code		NRZ - 000 - 000					
Project Title		New Construction of Generator Room					
Drawing Title		Plan ,Section Front Preview					
Project Location		Kandahar City					
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:	
Name	Eng.Amir M.	Eng.Amir M.				00 of 00	
Sign						Scales:	
Date						1:100	

# Plan & section of Guord Room for BHC

SI:100



HOSE GURD



## Note:

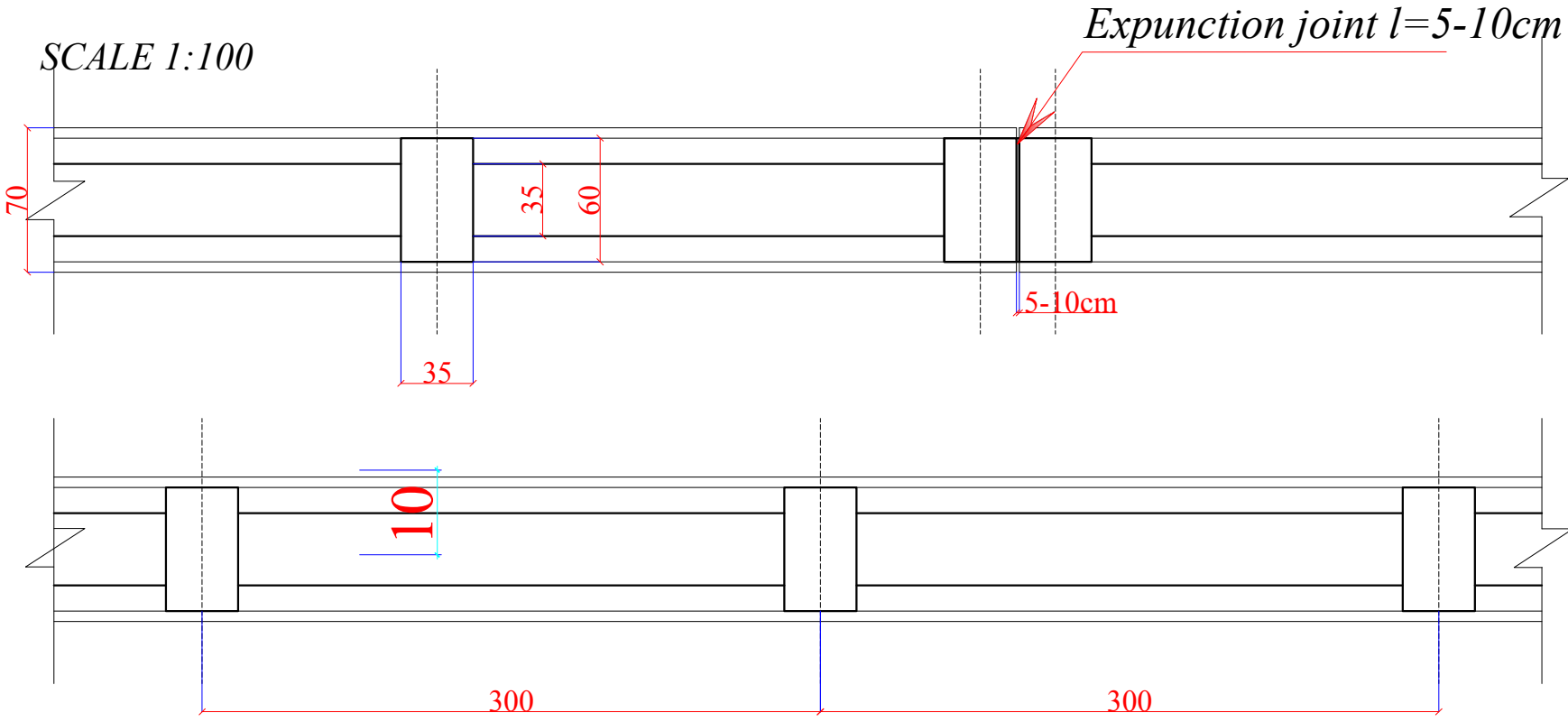
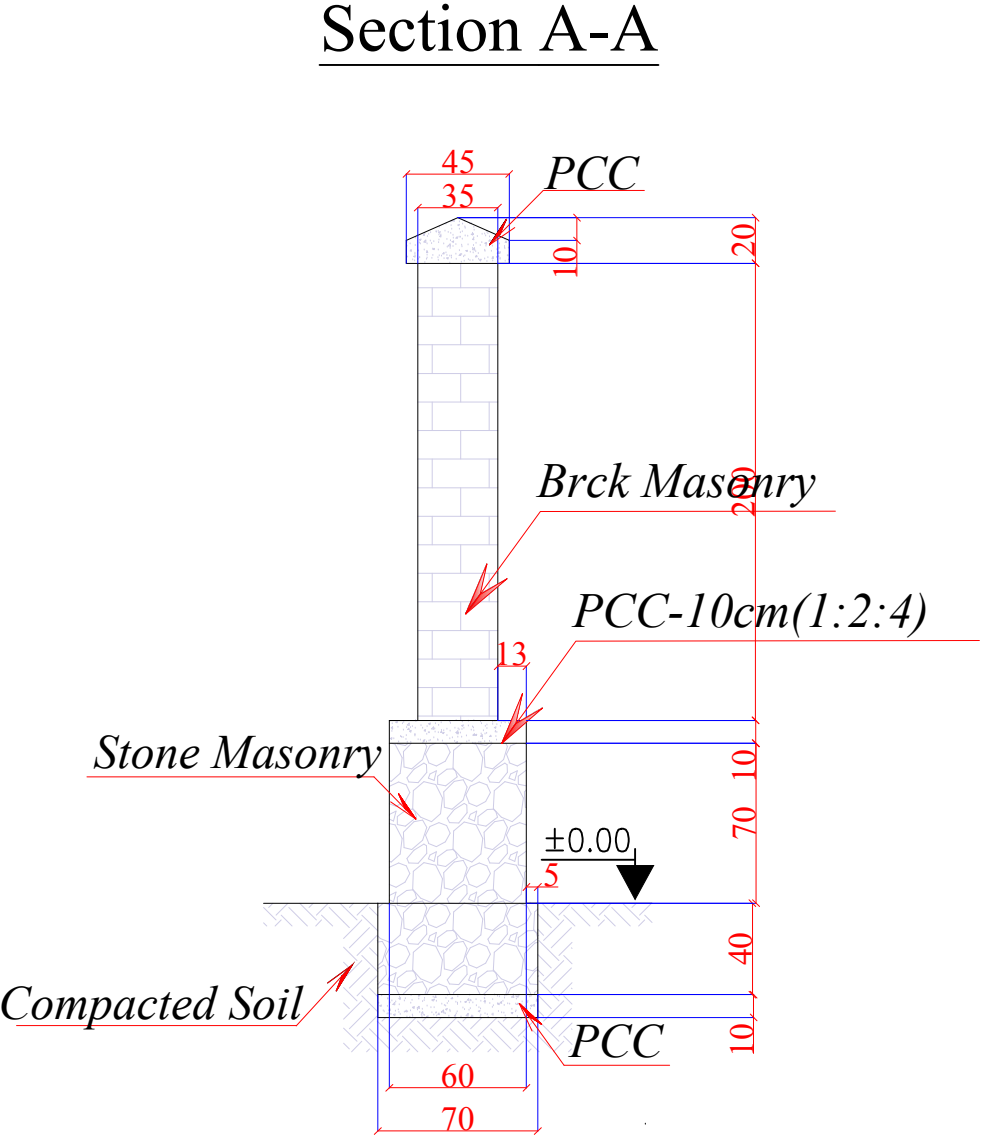
- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
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- 8-The curing must be not less than (28) days.

UNHCR Afghanistan					
NEMROZ BHC PROJECT					
Project Code		NRZ - 000 - 000			
Project Title		New Construction of Guard Room			
Drawing Title		Plan ,Section Front Preview			
Project Location		Zabul City			
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:
Name	Eng.Amir M.	Eng.Amir M.			
Sign					
Date					
Sheet No:					00 of 00
Scales:					1:100




Boundary wall for BHC building  
Plan Of Burnet Brick boundary wall

SCALE 1:100



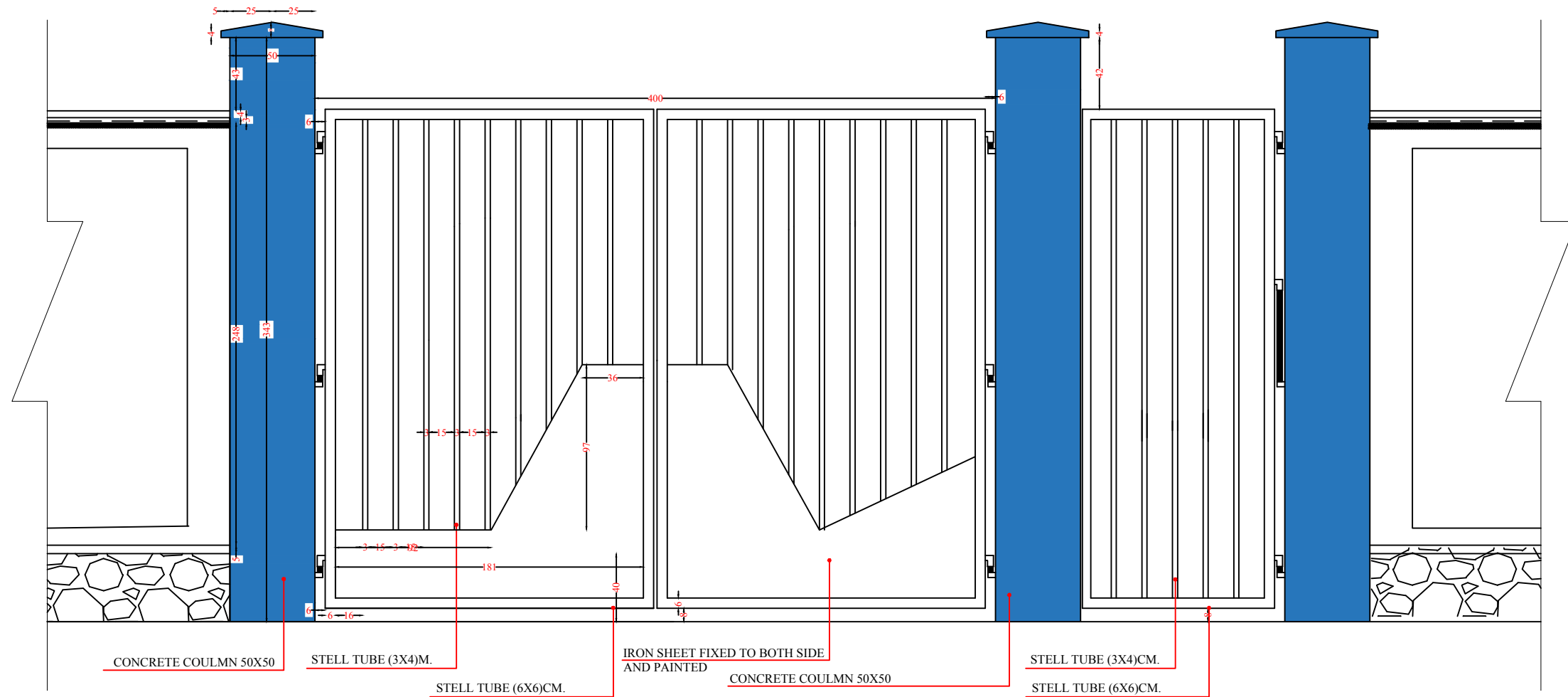
Lenght of Brick, stone masonry boundary wall=299m

**Note:**  
1-All dimension are in centimeters .  
2-PCC shall be (1:2:4).  
3-Mortar for stone masonry shall be (1:4).  
4-Mortar for stone masonry shall be (1:3).  
5-RCC shall be (1:1,5:3).  
6-All steel bars should be not eroded or lubricated and has to be clean.  
7-All steel bars should be Class(A1) Ra= 2100 Kg/cm² .  
8-The curing must be not less than (28) days.

<div><div><div><div></div><div>UNHCR</div></div><div><div>The UN Refugee Agency</div><div>Afghanistan</div></div></div><div>NEMROZ BHC PROJECT</div></div>					
Project Code	NER- 000 - 000				
Project Title	New Construction of Boundary wall				
Drawing Title	Plan & Sections of wall				
Project Location	Nemroz City				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
Date					1:100

# Boundary wall BHC building Main & Small Steel gate of Boundary wall

SCALE 1:100



## Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for stone masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1)  $R_a = 2100 \text{ Kg/cm}^2$ .
- 8-The curing must be not less than (28) days.

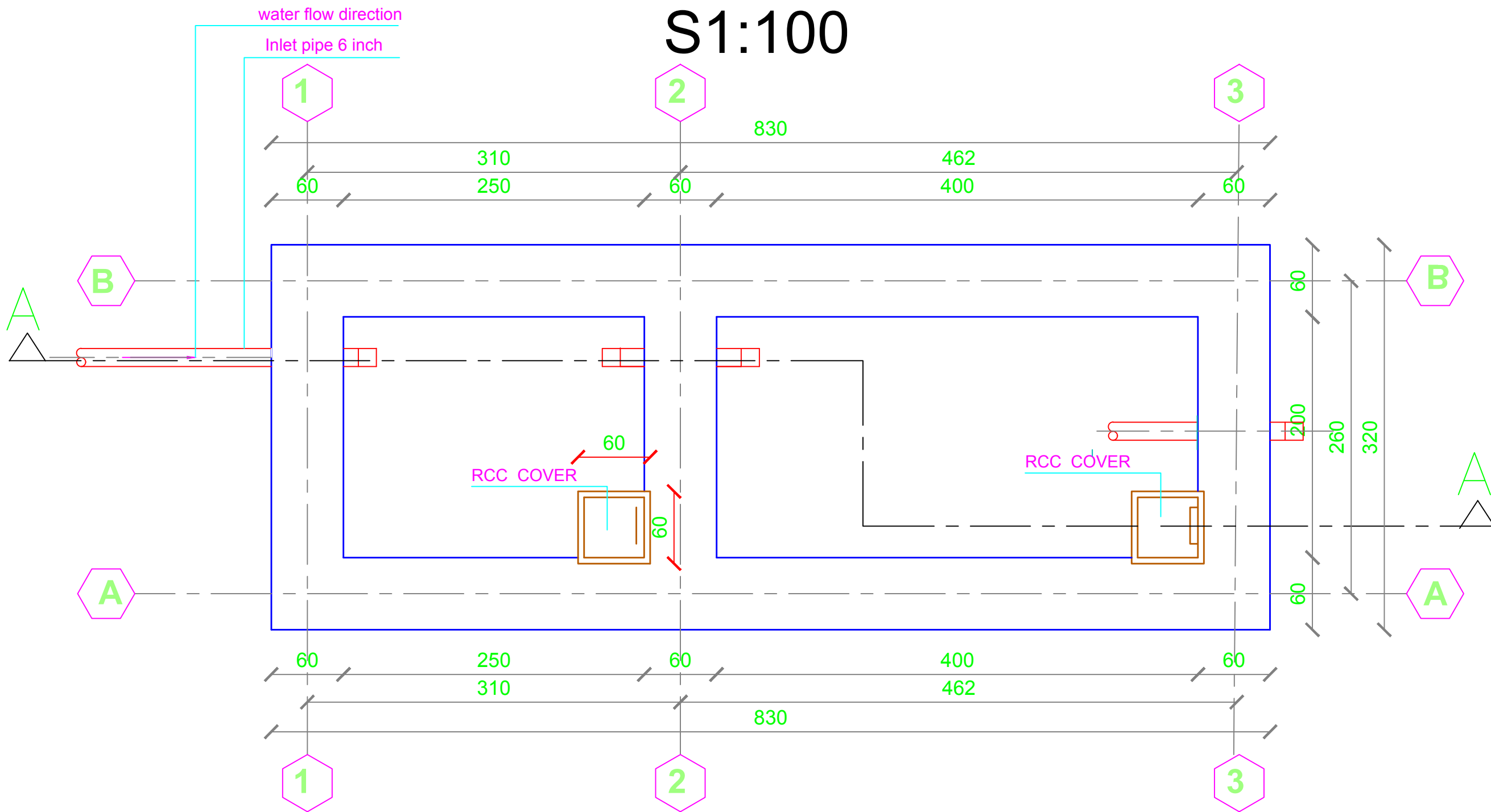
 **UNHCR** | Afghanistan  
The UN Refugee Agency


**NEMROZ  
BHC PROJECT**

Project Code	NER- 000 - 000				
Project Title	New Construction of Boundary wall				
Drawing Title	Front Preview				
Project Location	Kandahar City .				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng. Amir M.	Eng. Amir M.				00 of 00
Sign					Scales:
Date					1:100

# PLAN OF SEPTIC TANK

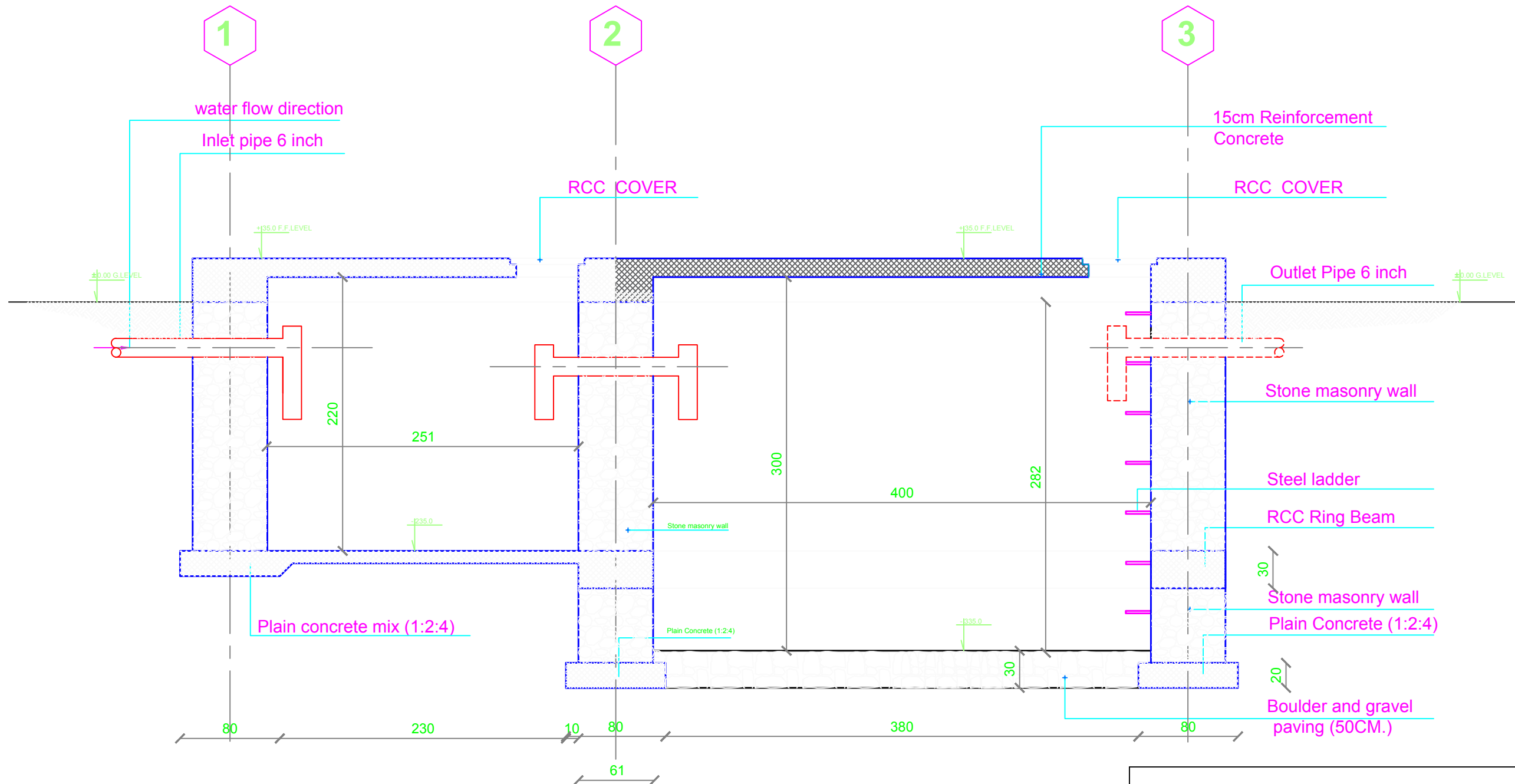
## S1:100




<div><div> <b>UNHCR</b> <small>The UN Refugee Agency</small></div><div>Afghanistan</div></div> <div>NEMROZ BHC- PROJECT</div>					
Project Code	NRZ-000-000				
Project Title	New Construction of Septic Tank				
Drawing Title	Plan				
Project Location	Nemroz BHC-Project				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:

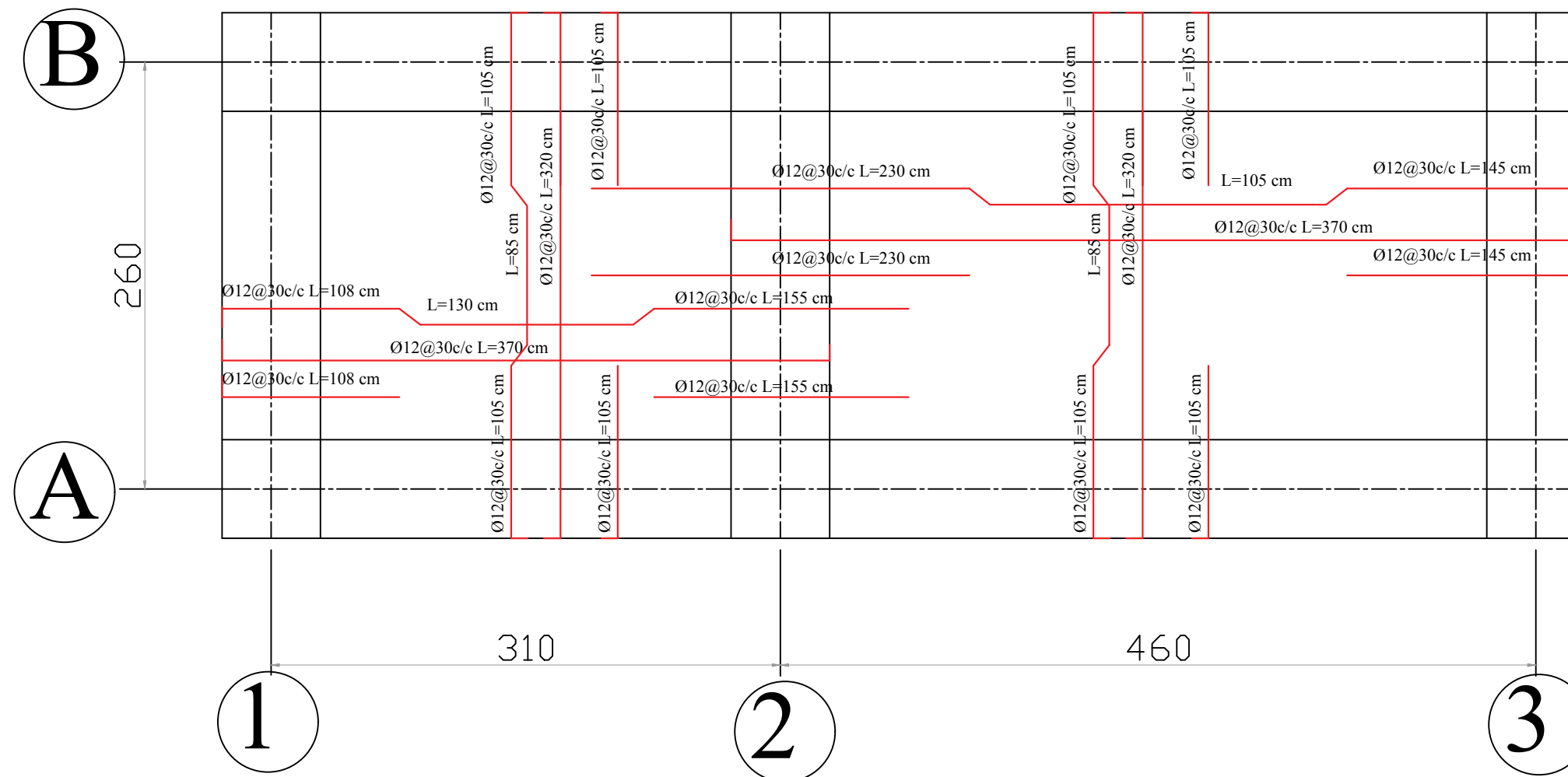
# SEPTIC TANK SECTION A-A


## S1:100



 <b>UNHCR</b> <small>The UN Refugee Agency</small>		<b>Afghanistan</b>		<b>NEMROZ BHC- PROJECT</b>	
Project Code	NRZ-000-000				
Project Title	New Construction of Septic Tank				
Drawing Title	Plan				
Project Location	Nemroz City BHC-Project				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
Date					1:100

## Bar Bending Schedule Of Septic Tank Slab

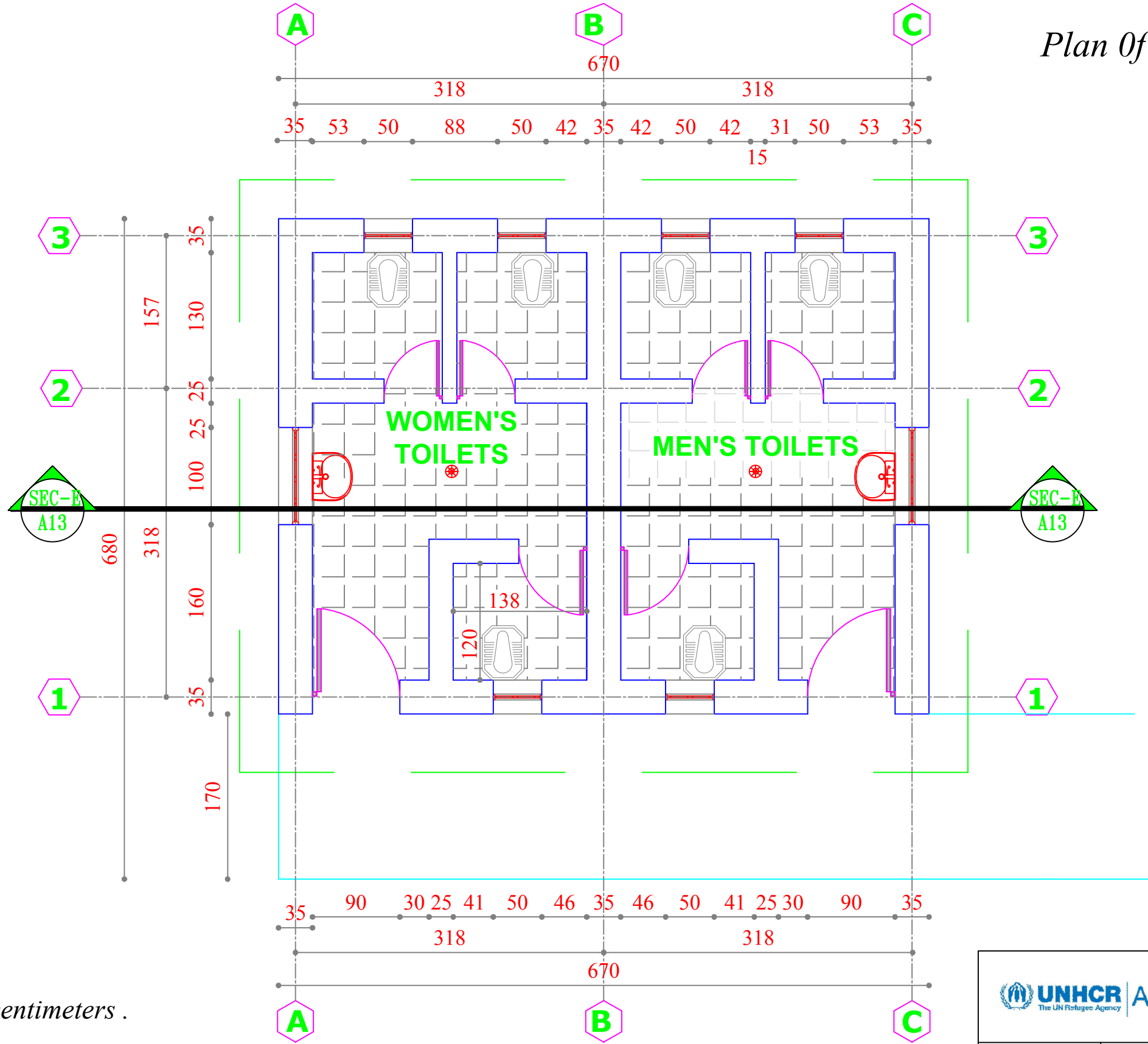


 <b>UNHCR</b>   Afghanistan <small>The UN Refugee Agency</small>		<b>NEMROZ BHC- PROJECT</b>
Project Code	NRZ-000-000	
Project Title	New Construction of Septic Tank For BHC	
Drawing Title	Plan	
Project Location	Nemroz City BHC-Project	

Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.				00 of 00
Sign					Scales:
					1:100


Plan Of Construction Toilets

SCALE 1:100



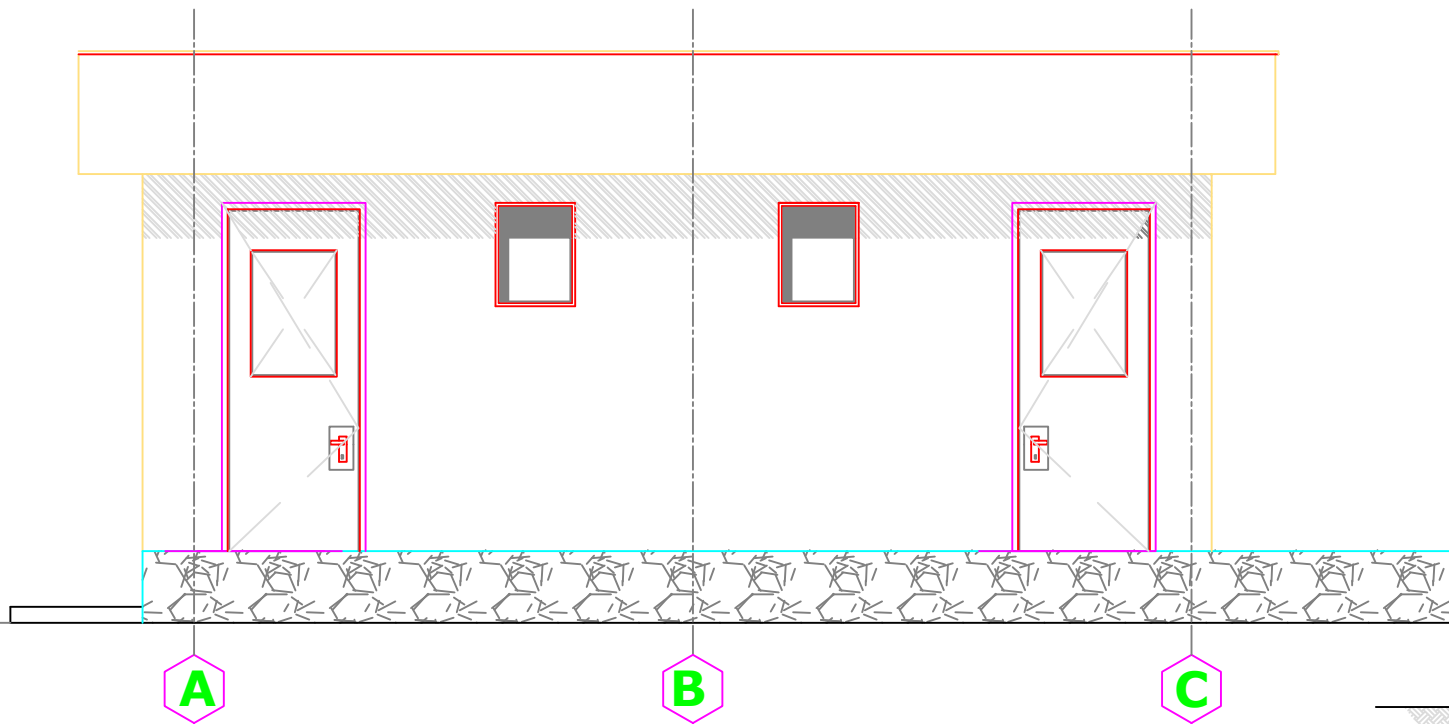
Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for Brick masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1) Ra= 2100 Kg/cm<sup>2</sup> .
- 8-The curing must be not less than (28) days.

 <b>UNHCR</b>   Afghanistan <small>The UN Refugee Agency</small>				<b>NEMROZ BHC- PROJECT</b>			
Project Code		NRZ- 000 - 000					
Project Title		New Construction of Toilets					
Drawing Title		reinforcement bending floor of building					
Project Location		Nemroz City					
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:	
Name	Eng.Amir M.	Eng.Amir M.				00 of 00	
Sign						Scales:	
Date						1:100	

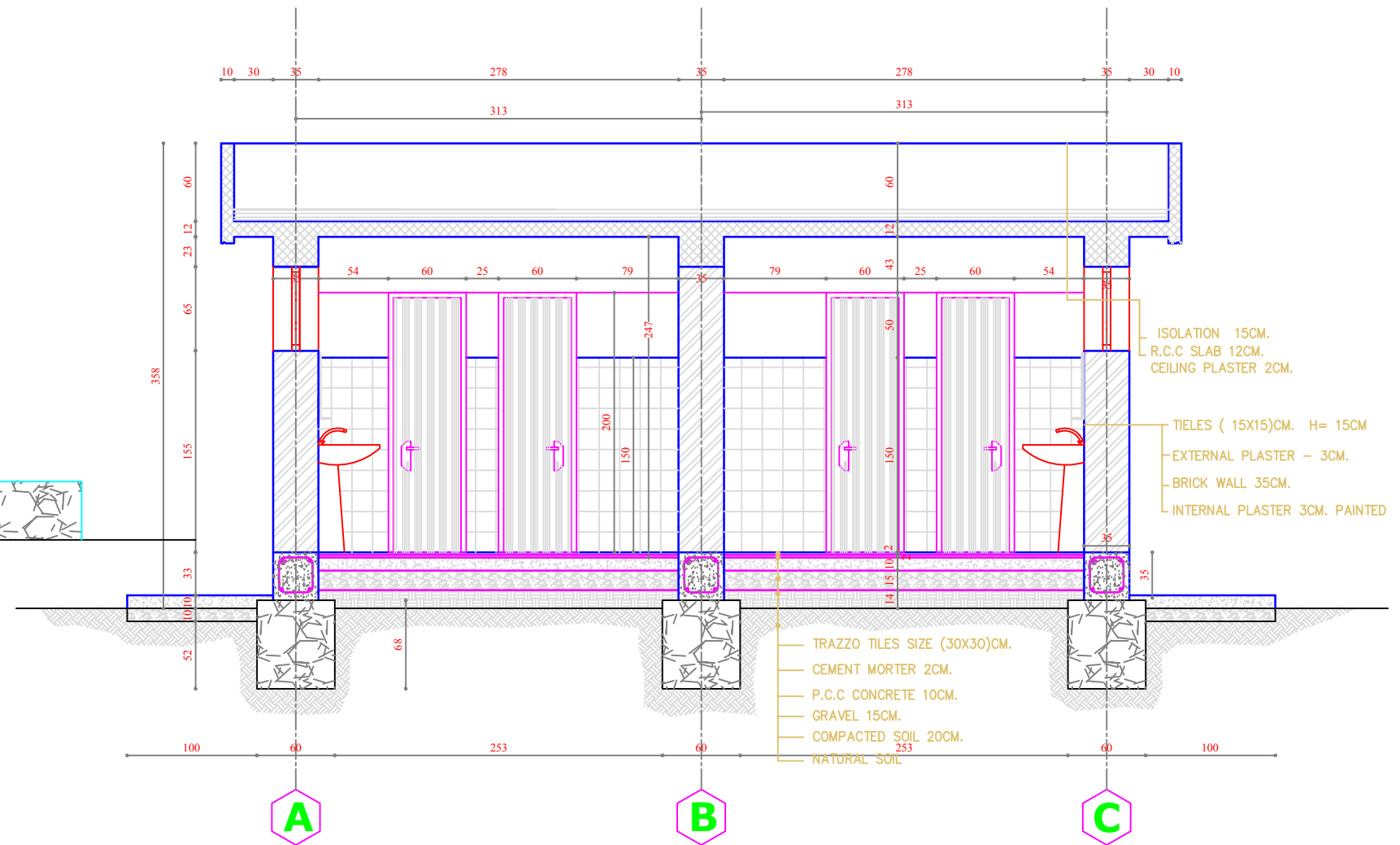
# Front Preview Of Construction Toilets

SCALE 1:100



## Section A-A

SCALE 1:100



### Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for Brick masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1)  $R_a = 2100 \text{ Kg/cm}^2$  .
- 8-The curing must be not less than (28) days.

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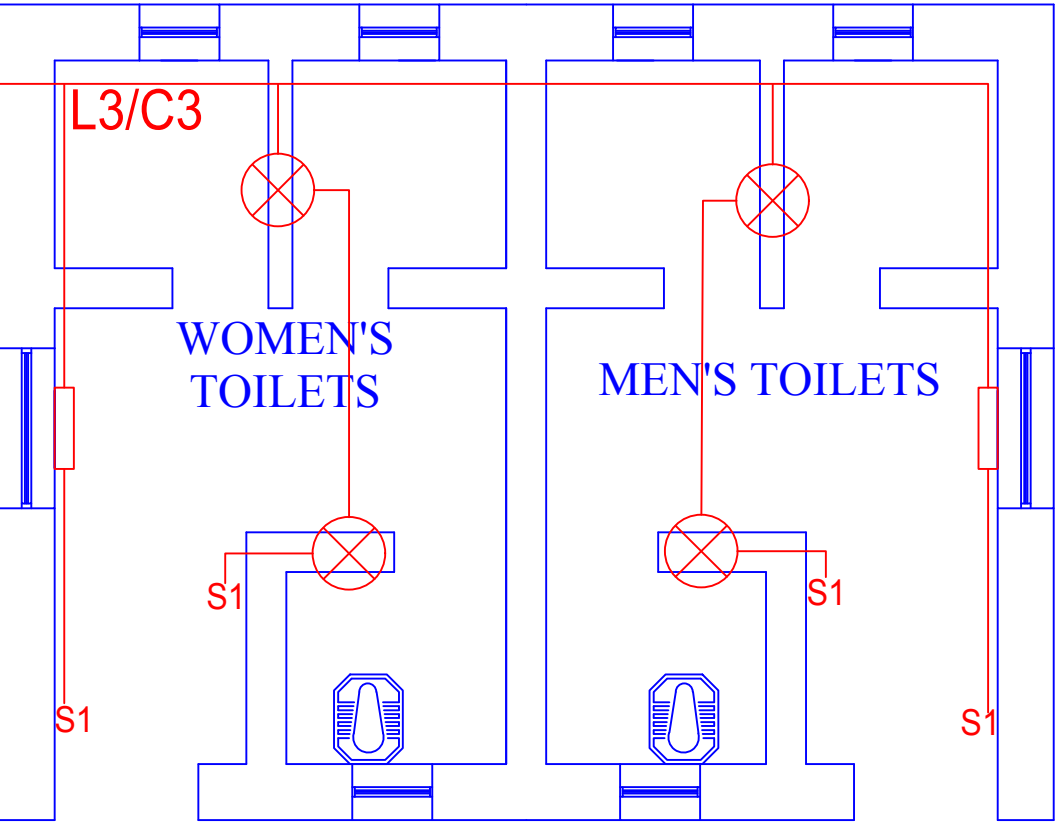
**NEMROZ  
BHC- PROJECT**

Project Code	NRZ- 000 - 000					
Project Title	New Construction of Toilets					
Drawing Title	front preview & Section of building					
Project Location	Nemroz City					
Drawn By:		Designed By:	Checked By:	Reviw By:	Approved By:	Sheet No:
Name	Eng.Amir M.	Eng.Amir M.				00 of 00
Sign						Scales:
Date						1:100



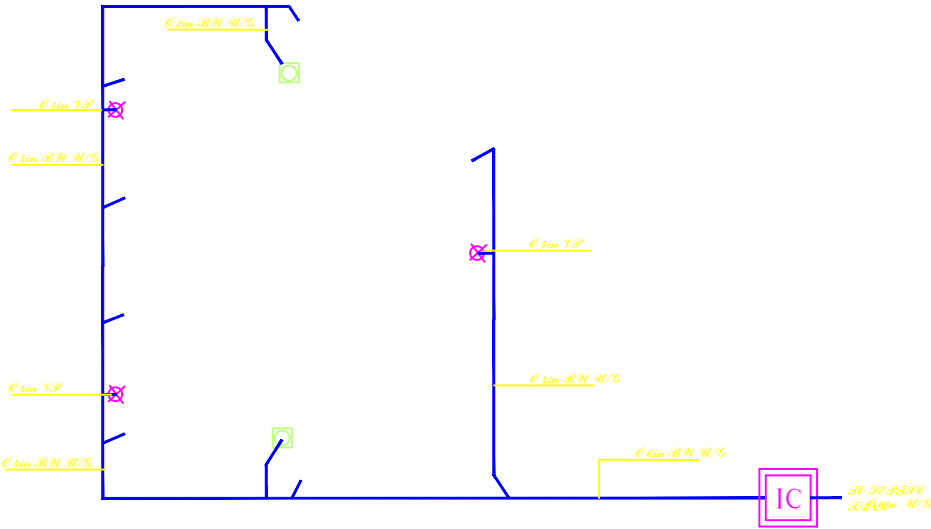
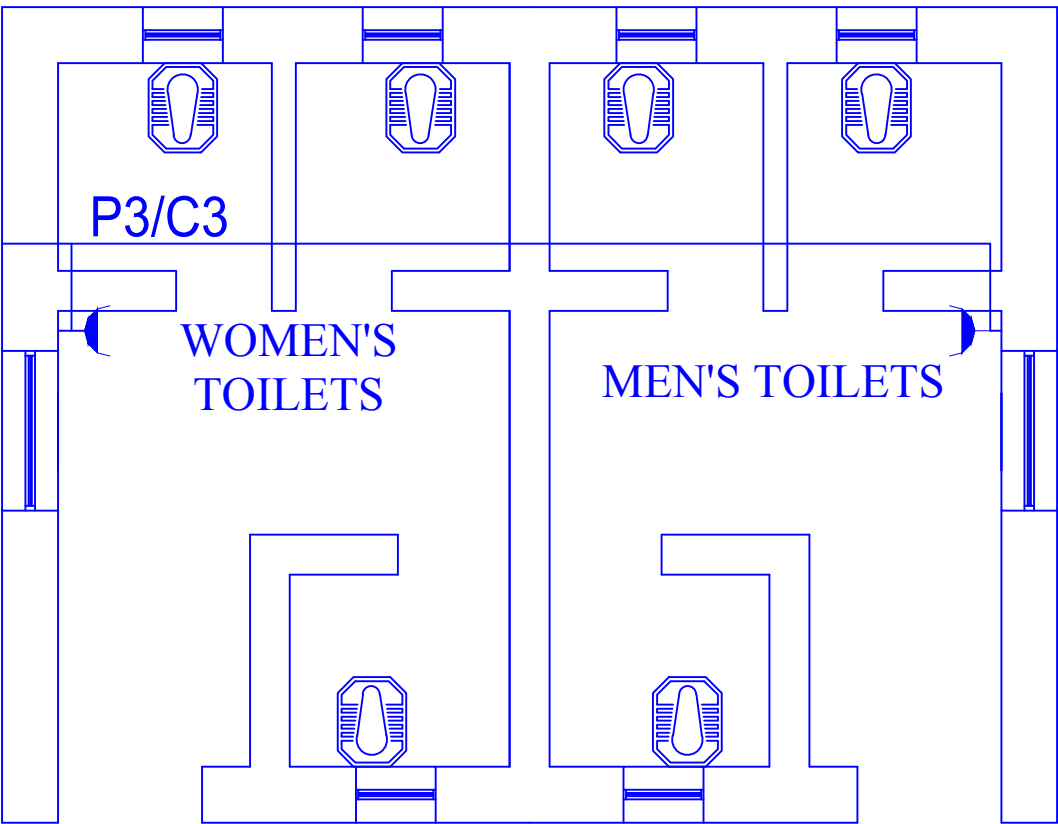
Electration Plan Of Construction Toilets

SCALE 1:100



Mecanical Plan Of Construction Toilets

SCALE 1:100



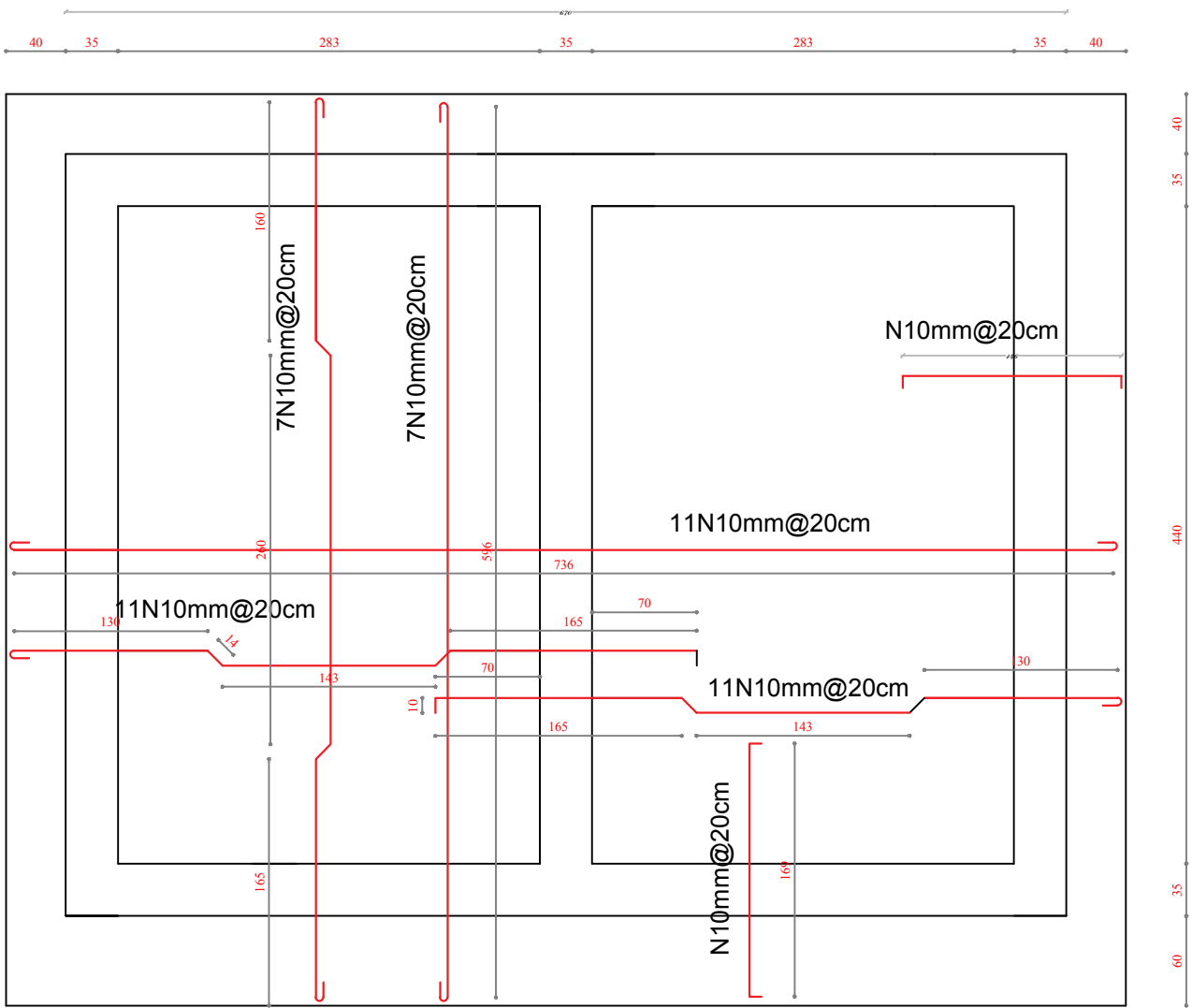
Note:

- 1-All dimension are in centimeters .
- 2-PCC shall be (1:2:4).
- 3-Mortar for stone masonry shall be (1:4).
- 4-Mortar for Brick masonry shall be (1:3).
- 5-RCC shall be (1:1,5:3).
- 6-All steel bars should be not eroded or lubricated and has to be clean.
- 7-All steel bars should be Class(A1) Ra= 2100 Kg/cm<sup>2</sup> .
- 8-The curing must be not less than (28) days.

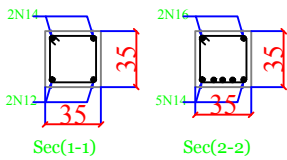
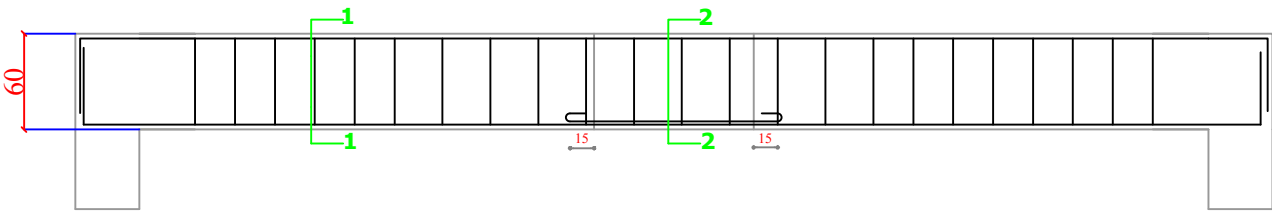
EXTERIOR TOILETS DRAINAGE  
PLAN 1/40

NEMROZ BHC- PROJECT					
Project Code		NRZ- 000 - 000			
Project Title		New Construction of Toilets			
Drawing Title		Felicitation & Mechanical plan			
Project Location		Nemroz City			
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:
Name	Eng.Amir M.	Eng.Amir M.			
Sign					
Date					
Sheet No:					00 of 00
Scales:					1:100

STEL BENDING PLAN OF SLAB




TOILAT

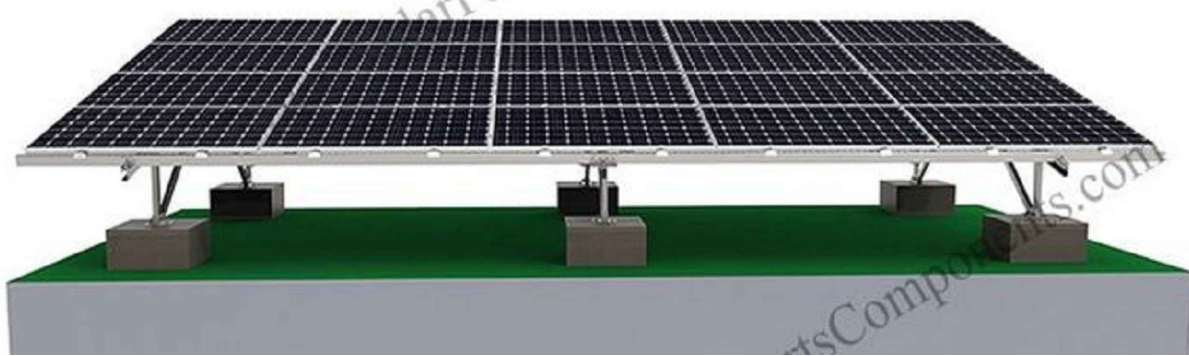
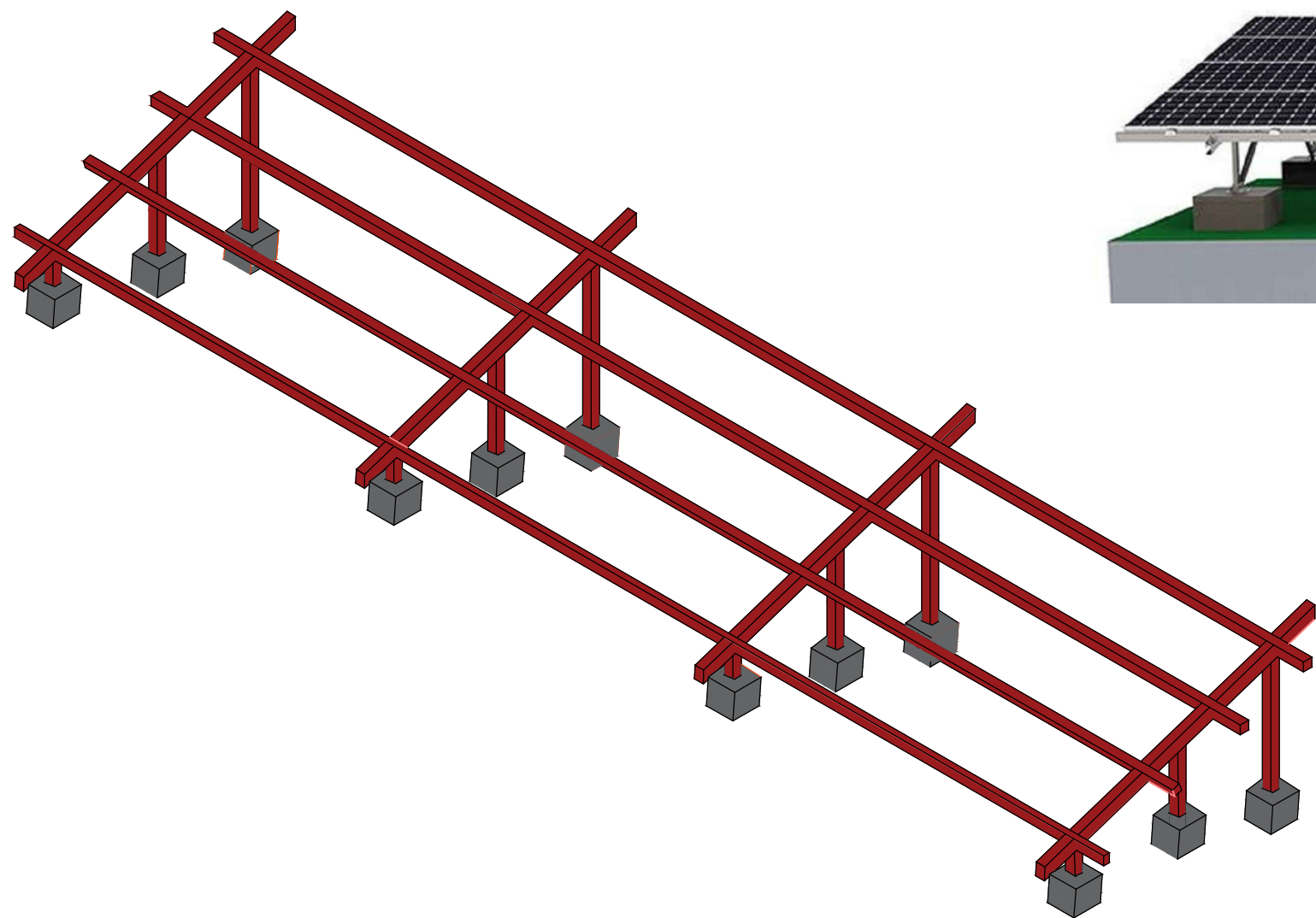


Specification:

- 1.Slab thickness: for slabs is 12 cm
- 2.for parapets is 7.5
- 3.cover : for slab is 2.5 cm ,for beams is 3cm for column is 4cm , for foundation is 6cm
- 4.plaster thickness: for walls shall be 2cm , for ceiling shall be 1cm of cement , lime ,sand at ratio of (1:5:10)
- 5.forms work : shall be straight , perpendicular structural and visual requirement .do not use weak formwork that Causes bulges, gaps or holes in the poured concrete.  
Reinforcing bars: reinforcing steel bar for all members shall be deformed bars and shall be minimum yield strength of 2400 kg/sqcm. The steel bars for all members shown in drawing.
- 6.Concert: all reinforcement concerts shall be power machine mixed and machine vibrated. the concert mark shall be in  
Foundation is 150kg/sqcm ,for slabs ,beams and ring beams is 200kg /sqcm in (1:1.5:3) & in columns shall be 250kg/sqcm (1:1:2).
- 7.Aggregates: aggregates shall be clean crushed rock, hard, free from coating and dust. the maximum size of aggregate shall bee 20 mm and not exceeding 75 % of the clear spacing between steel reinforcement or between reinforcement and formwork.
8. Earthquake coefficients: This is considerate in design  
I= 1.5 (for hospital & clinics)  
K= 1 (for ordinary frame)
9. the dimension of foundation is designed for Bearing capacity =2Ton/m2 if the BC is smaller than this ,the dimenson must be chang according bearing capacity of that earth. structure building)

 <b>UNHCR</b>   Afghanistan <small>The UN Refugee Agency</small>				<b>NEMROZ BHC- PROJECT</b>			
Project Code		NRZ- 000 - 000					
Project Title		New Construction of Toilets					
Drawing Title		Reinforcement bending floor of building					
Project Location		Nemroz City					
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:	
Name	Eng.Amir M.	Eng.Amir M.				00 of 00	
Sign						Scales:	
Date						1:100	

Solar panel frame design and specification



Note:

1-All dimension are in meter .

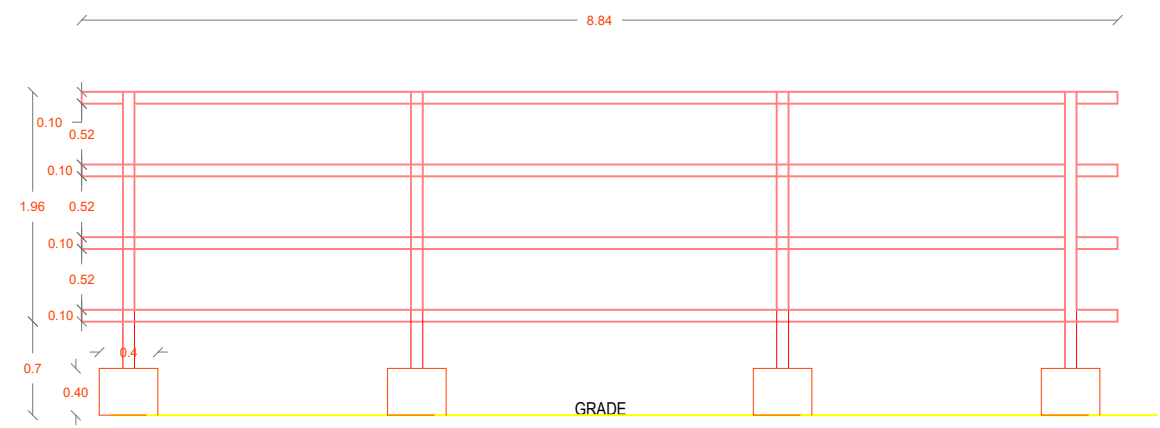


Afghanistan

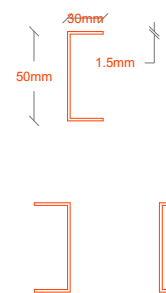


Project code	KDR - 000 - 000		
Project			
Drawing Title	Solar panel frame design and specification		
Project Location	South Region Kandahar Afghanistan		
Drawn By:	Designed By:	Checked By:	
Name	Engr.Esmatullah	Engr.Esmatullah	Engr. Imran danish
Sign			
Date			

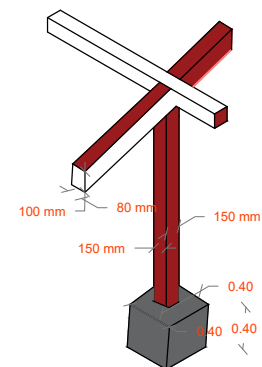
# Solar panel frame design and specification



FRONT VIEW



DETAILS of L Ring





DETAILS of L Ring

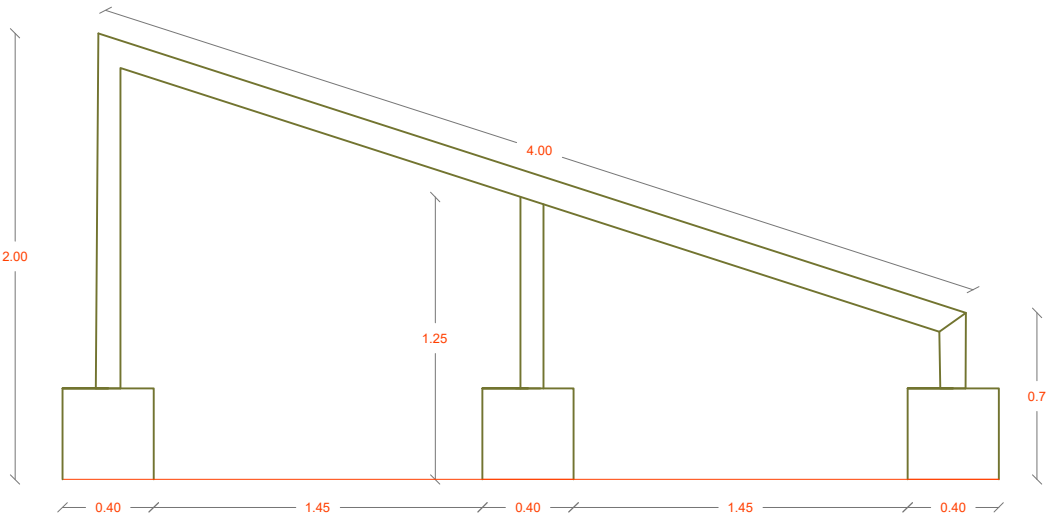


SAMPLE IMAGE

**Note:**

- 1-Steel for frame will be 18 Gouge
- 2-Solar panels must be netted and bolted in L Ring frames
- 3-L Ring will be (thickness=1.5mm)
- 4-Frames must be welded by electricity
- 5-All dimension are in Meter .

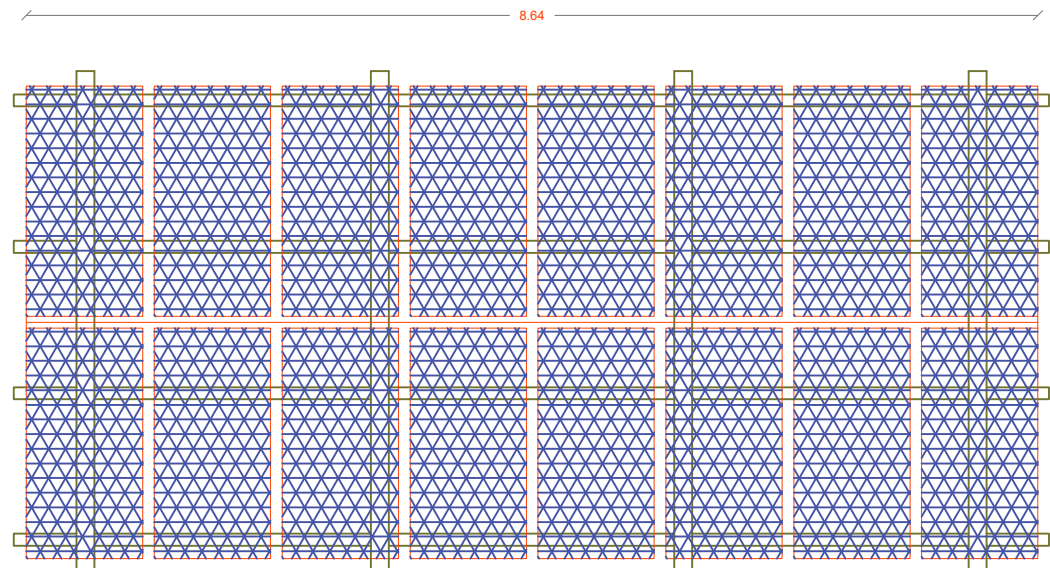
 <b>UNHCR</b> The UN Refugee Agency		<b>Afghanistan</b>		 زنان برای زنان افغان ښځې د افغان ښځو لپاره WOMEN FOR AFGHAN WOMEN
Project code		KDR - 000 - 000		
Project				
Drawing Title		Solar panel frame design and specification		
Project Location		South Region Kandahar Afghanistan		
Drawn By:		Designed By:	Checked By:	
ame	Engr.Esmatullah	Engr.Esmatullah	Engr. Imran danish	
gn				
ate				



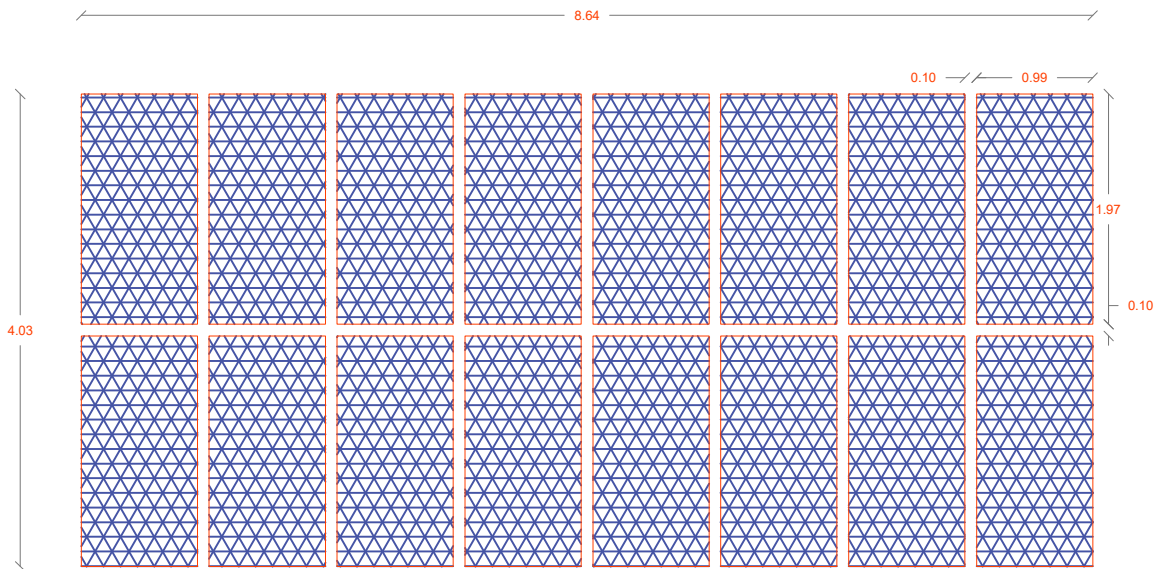
SECTION VIEW



# Solar panel frame design and specification





TOP VIEW

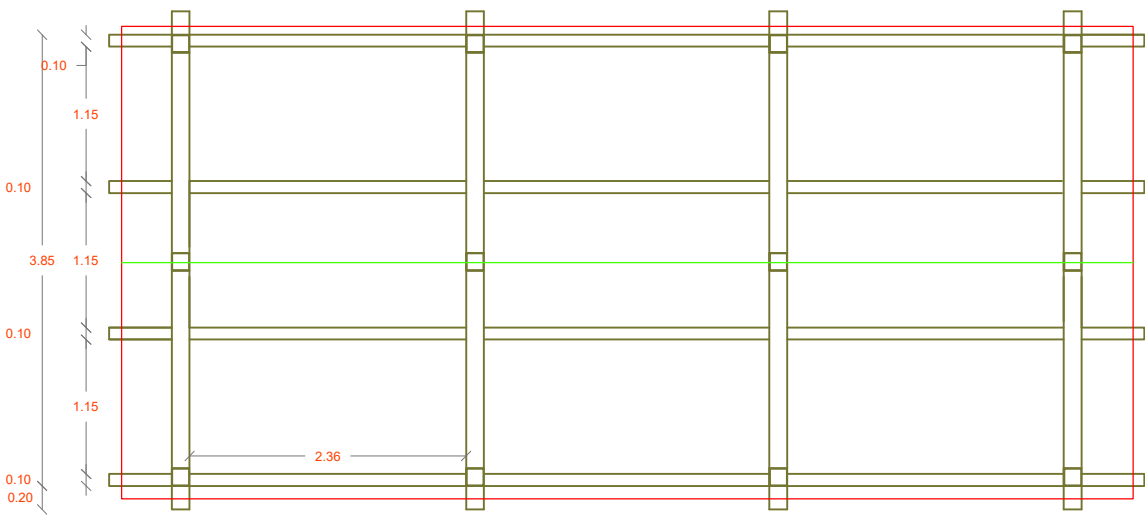


Top VIEW

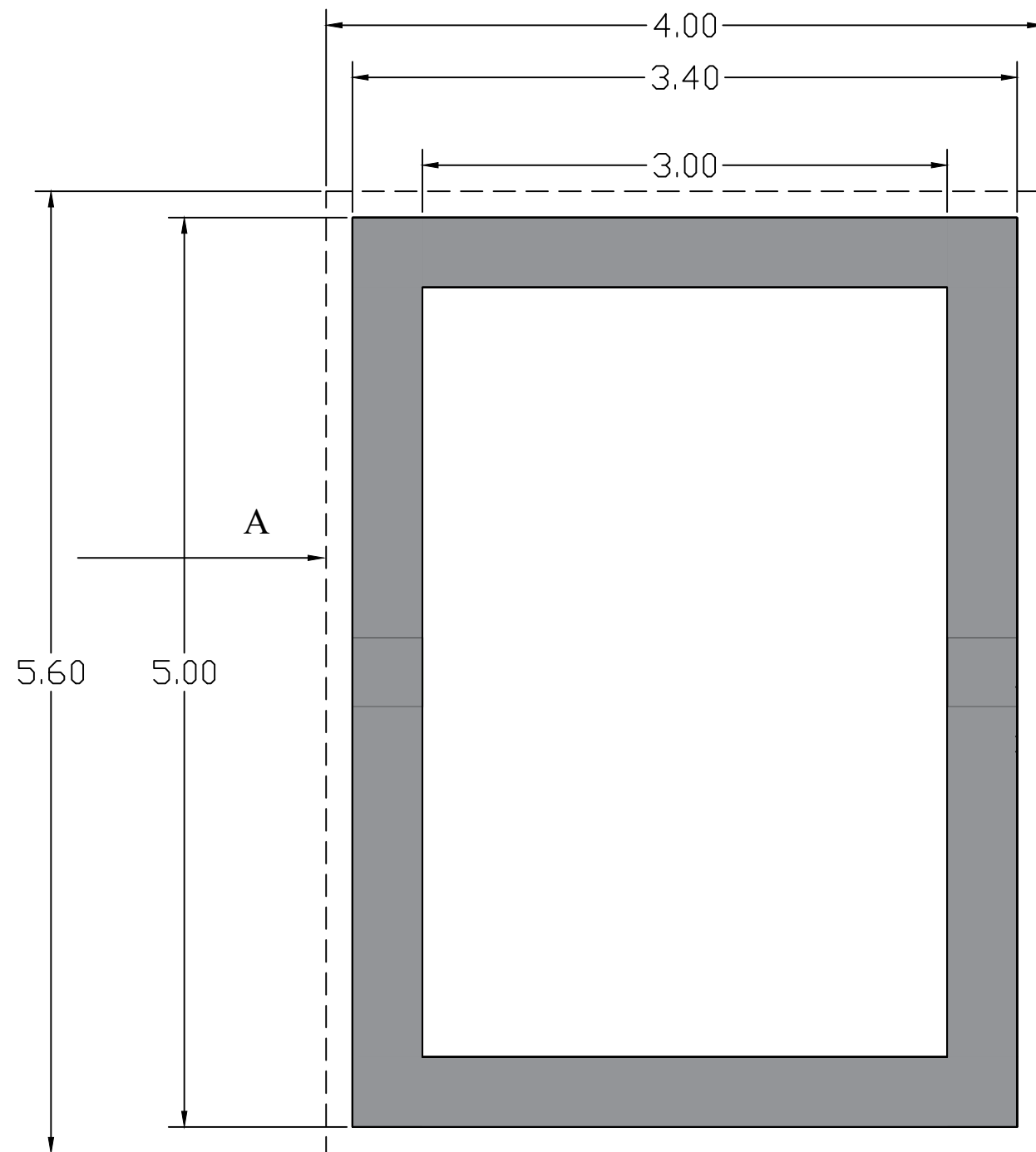
**Note:**

- 1-Steel for frame will be 18 Gouge
- 2-Solar panels must be netted and bolted in L Ring frames
- 3-L Ring will be (thickness=1.5mm)
- 4-Frames must be welded by electricity
- 5-All dimension are in Meter .

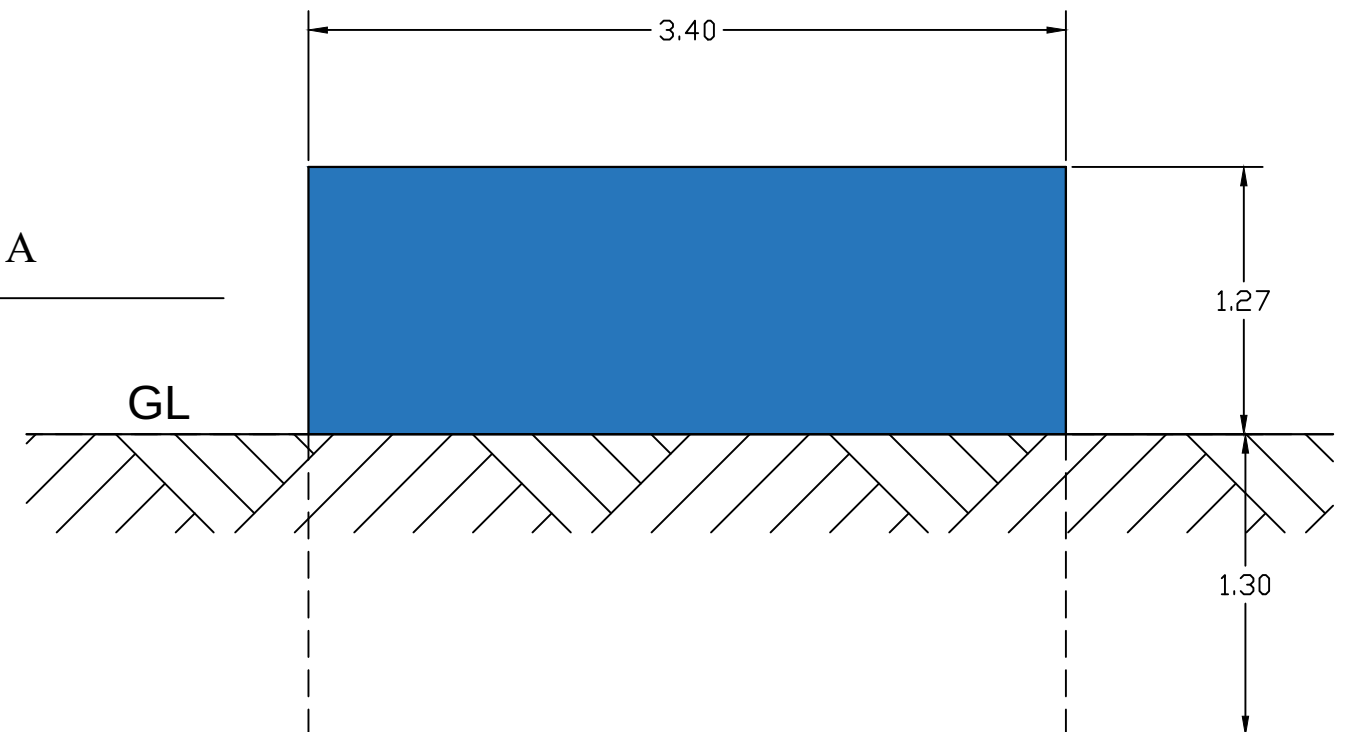
 <b>UNHCR</b> The UN Refugee Agency		<b>Afghanistan</b>		 زنان برای زنان افغان ښځې د افغان ښځو لپاره WOMEN FOR AFGHAN WOMEN
Project code		KDR - 000 - 000		
Project				
Drawing Title		Solar panel frame design and specification		
Project Location		South Region Kandahar Afghanistan		
Drawn By:		Designed By:	Checked By:	
ame	Engr.Esmatullah	Engr.Esmatullah	Engr. Imran danish	
gn				
ate				



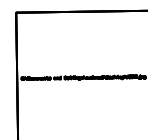
TOP VIEW



PLAN OF RESERVOIR



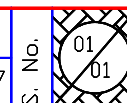
RESERVOIR ELEVATION



No	Date	Revision	Survey by	
1			Structural.D. by	
2			Drawn by	
3			Approved by	

MINISTRY OF EDUCATION AFGHANISTAN  
OFFICE :  
PROGRAM:WATER SUPPLY  
ENGINEERING DEPARTMENT

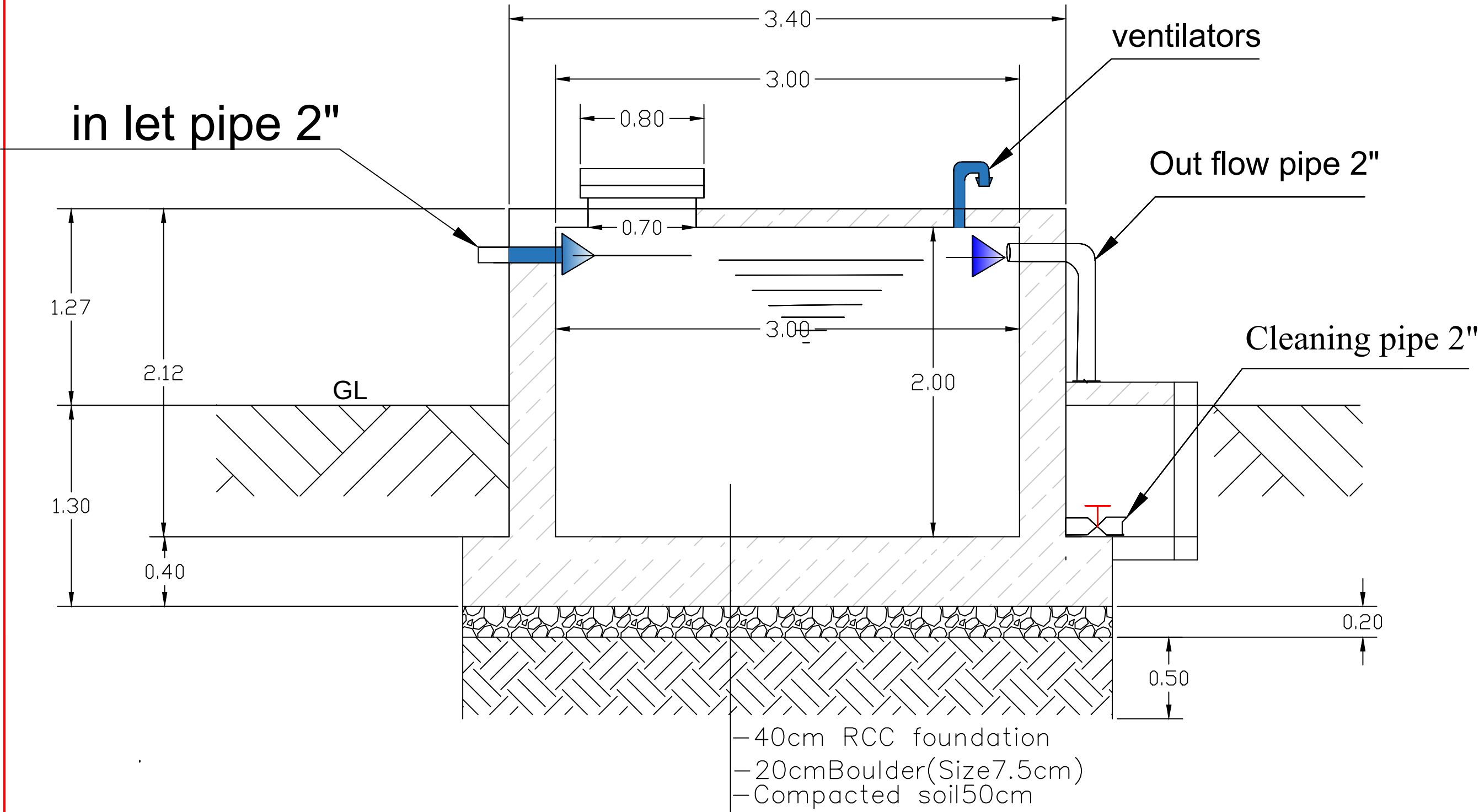
Scale	1 : 100
Date	25 09 17
Drawing No.	ST-01



Province	
District	
Village	

Project name: RCC elevated  
Water reservoir 30.0 m<sup>3</sup>  
Drawing Title: Plan & sections

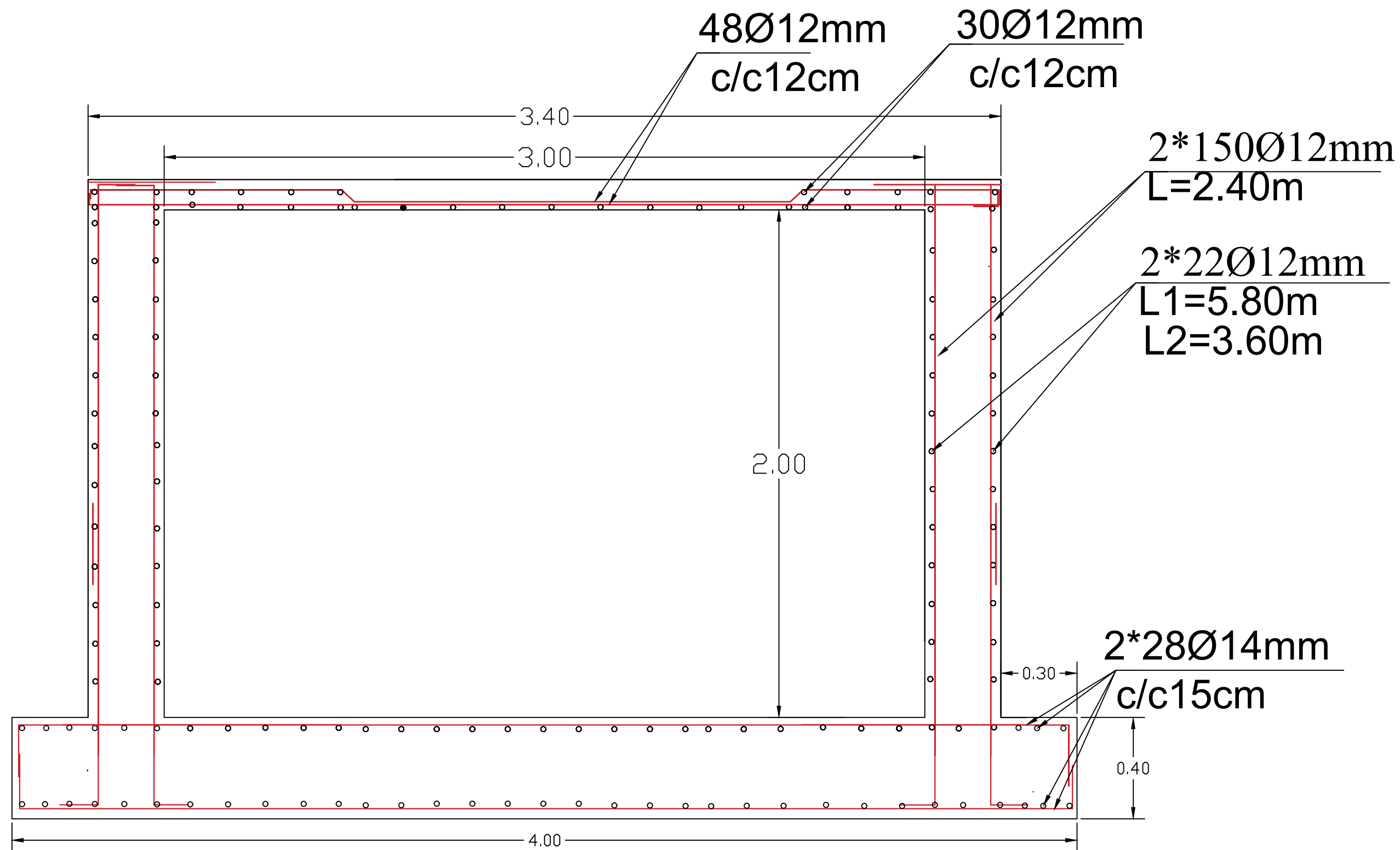
SECTION A-A



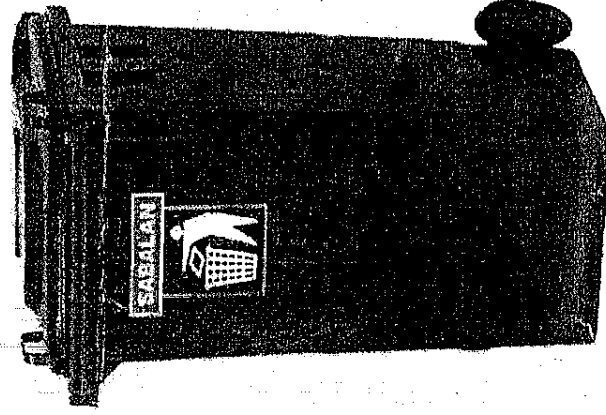
	No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN OFFICE : PROGRAM: WATER SUPPLY ENGINEERING DEPARTMENT	Scale	1 : 100		Province	
	1			Structural.D. by		Date	25 09 17		District	
	2			Drawn by		Drawing No.	ST-01			
	3			Approved by						



# REINFORCEMENT DETAIL

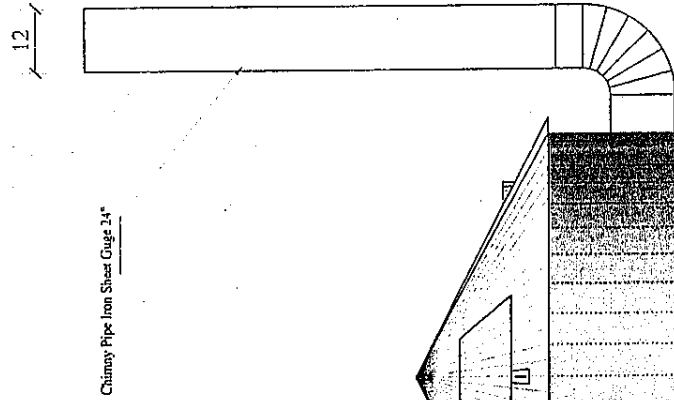
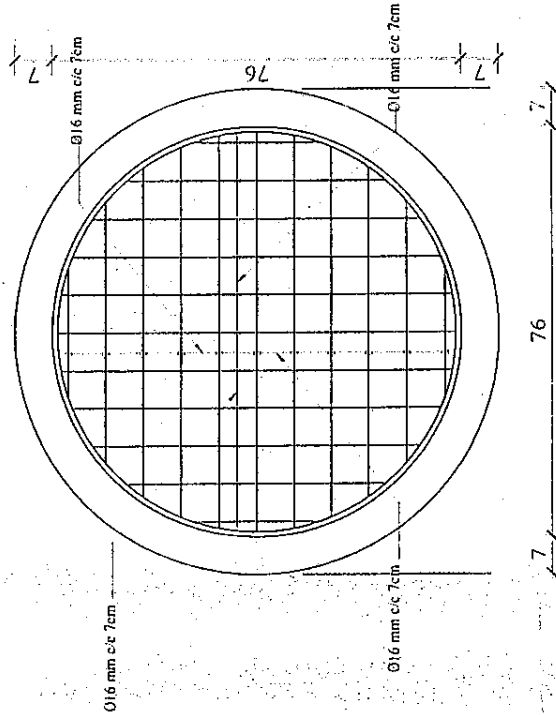


	No	Date	Revision	Survey by	MINISTRY OF EDUCATION AFGHANISTAN OFFICE : PROGRAM:WATER SUPPLY ENGINEERING DEPARTMENT	Scale	1 : 100		Project name: RCC elevated Water reservoir 30.0 m3 Drawing Title: Plan & sections
	1			Structural.D. by		Date	25 09 17		
	2			Drawn by		Drawing No.	ST-01		
	3			Approved by					

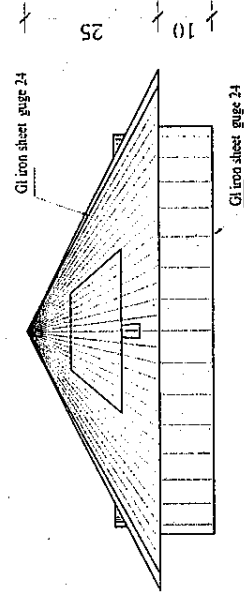


Code 201/240 Lit.

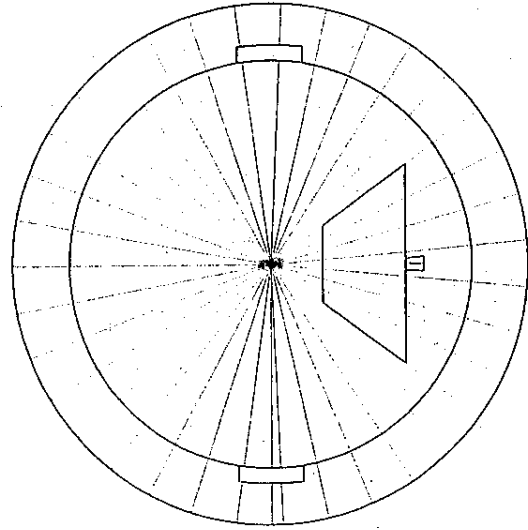
BASKET PRICE 3000 AFGHANIS. ( 1 )



Chimney Pipe Iron Sheet Gage 24"



View of Iron Sheet Cover gage 24"



Plan of Iron Sheet Cover gage 24"