

PLAN HEALTH BUILDING

S1:100

GPS POINTS

Adamdmal CHC

31 39 6.77E
65 4256.55N

Amijan CHC

31 38 25.73E
65 42 5.95N

Shamsulhaq CHC

31 38 16.01E
65 44 14.54N

Drag hospital

31 38 24.66E
65 42 58.96N

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.



KANDAHAR
CBP HEALTH PROJECT



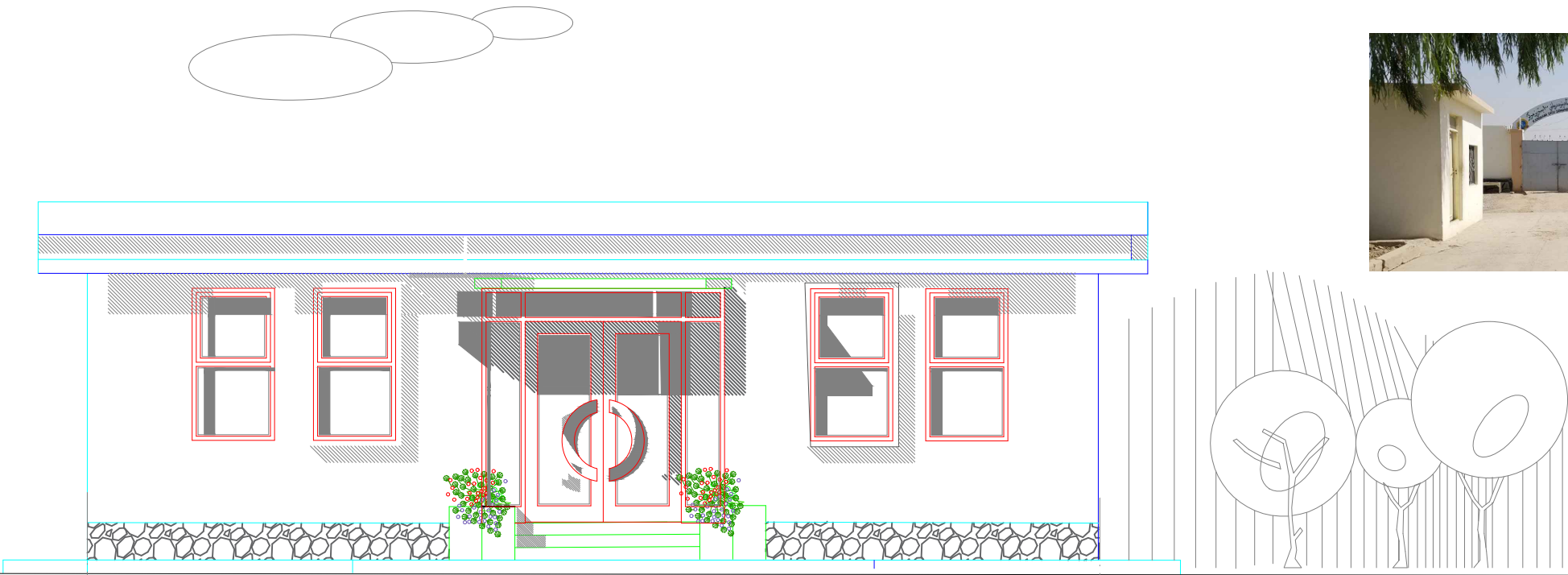
Project Code	KAN - 000 - 000				
Project Title	New Construction of Health Building				
Drawing Title	Plan of building				
Project Location	Kandahar City PD# 9				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.	Eng.F.Nazari	DoPH	UNHCR	00 of 00
Sign					Scales:
Date					1:100

SIDE PREVIEW HEALTH BUILDING

S1:100



Adamdmal CHC



Drag hospital




Amijan CHC



Shamsulhaq CHC


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بشوي دځيريه موسسه
ORGANIZATION OF HUMANITARIAN WORK

KANDAHAR

CBP HEALTH PROJECT



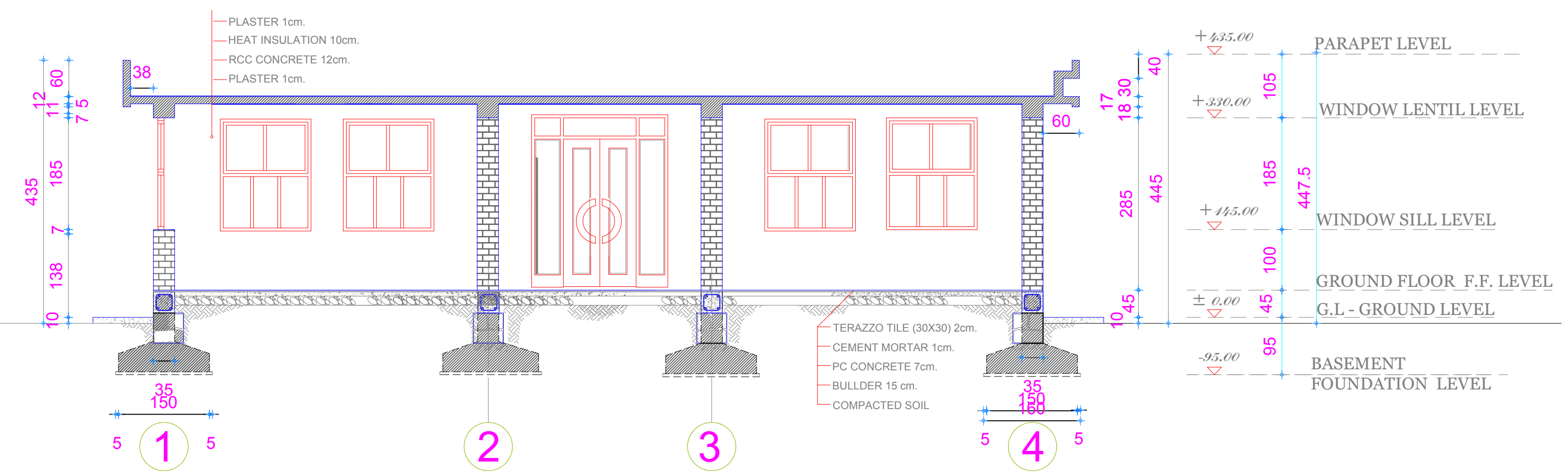
UNHCR

The UN Refugee Agency

Afghanistan

Project Code	KAN - 000 - 000				
Project Title	New Construction of Health Building				
Drawing Title	Front preview of building				
Project Location	Kandahar City PD# 9				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Eng.Amir M.	Eng.Amir M.	Eng.F.Nazari	DoPH	UNHCR	00 of 00
					Scales:
					1:100

CRASS SECTION OF BUILDING
S1:100



Note:
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<div><div></div><div>KANDAHAR CBP HEALTH PROJECT</div><div> UNHCR Afghanistan <small>The UN Refugee Agency</small></div></div>					
Project Code	KAN - 000 - 000				
Project Title	New Construction of Health Building				
Drawing Title	Crass Section of building				
Project Location	Kandahar City PD# 9				
Drawn By:	Designed By:	Checked By:	Reviw By:	Approved By:	Sheet No:
Eng.Amir M.	Eng.Amir M.	Eng.F.Nazari	DoPH	UNHCR	00 of 00
					Scales:
					1:100

CODE	STRUCTURAL OPEN		NO	SPICS.	DIMENSION
	W	H			
D1	60	285	9	*PAINTED WOODEN FRAME *HINGED WOODEN DOOR *5mm THICK. GLASS LIGHTING PANEL *DOOR HOLDER	
D2	90	285	1	*PAINTED WOODEN FRAME *HINGED WOODEN DOOR *5mm THICK. GLASS LIGHTING PANEL *DOOR HOLDER	
CODE	STRUCTURAL OPEN		NO	SPICS.	DIMENSION
	W	H			
D3	70	190	2	*PAINTED WOODEN FRAME *HINGED WOODEN DOOR *DOOR HOLDER	
D4	295	285	1	*PAINTED WOODEN FRAME *FIXED WINDOW *HINGED WOODEN DOOR * 5mm. THICK. GLASS LIGHTING PANEL *DOOR HOLDERS	

Note:

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1- TERAZZO TILE (30X30) 2cm.

2- CEMENT MORTAR 5cm.

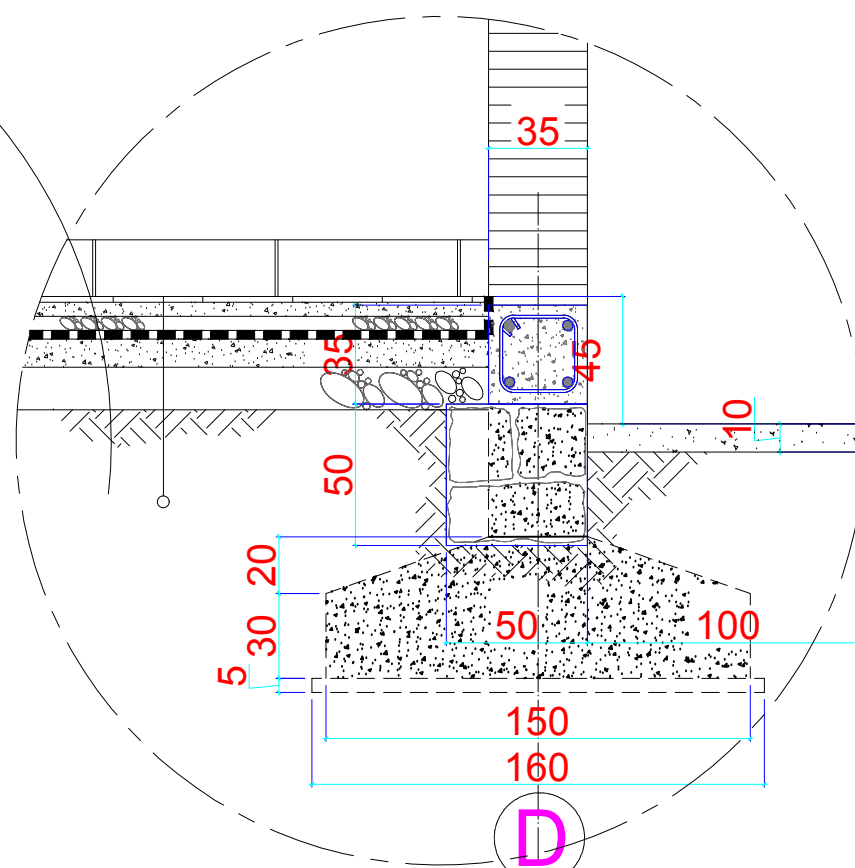
3- GRAVEL (2cm.) 5cm.

4- INSULATION 3cm.

5- CONCRETE FLOOR 10cm.

6- GRAVEL 15cm.

7- COMPACTED SOIL



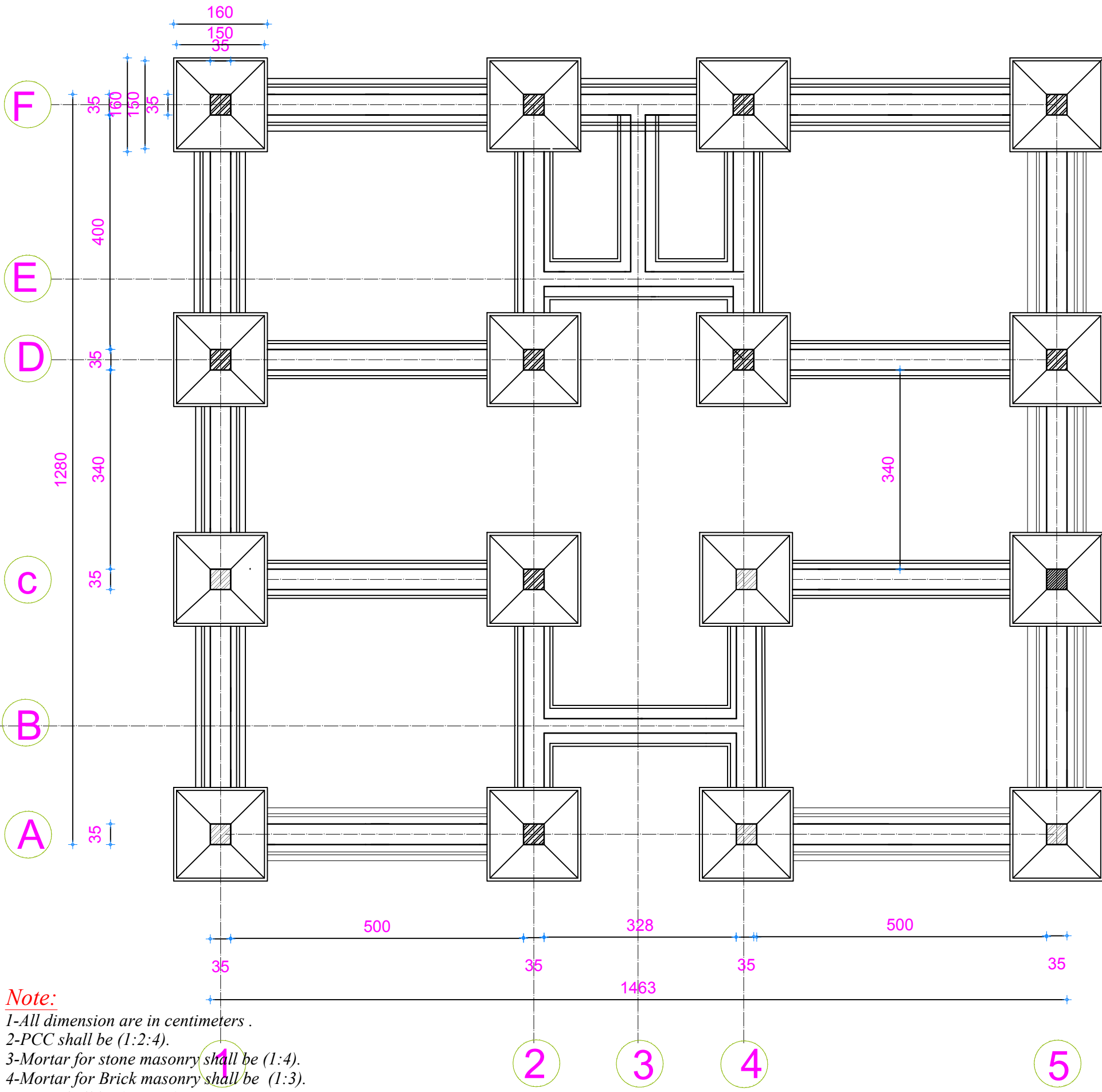
KANDAHAR CBP HEALTH PROJECT					
Project Code	KAN - 000 - 000				
Project Title	New Construction of Health Building				
Drawing Title	Section details of building				
Project Location	Kandahar City PD# 9				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Eng.Amir M.	Eng.Amir M.	Eng.F.Nazari	DoPH	UNHCR	00 of 00
					Scales:
					1:100

PLAN FOUNDATION
OF BUILDING



S1:100

Specdfication:

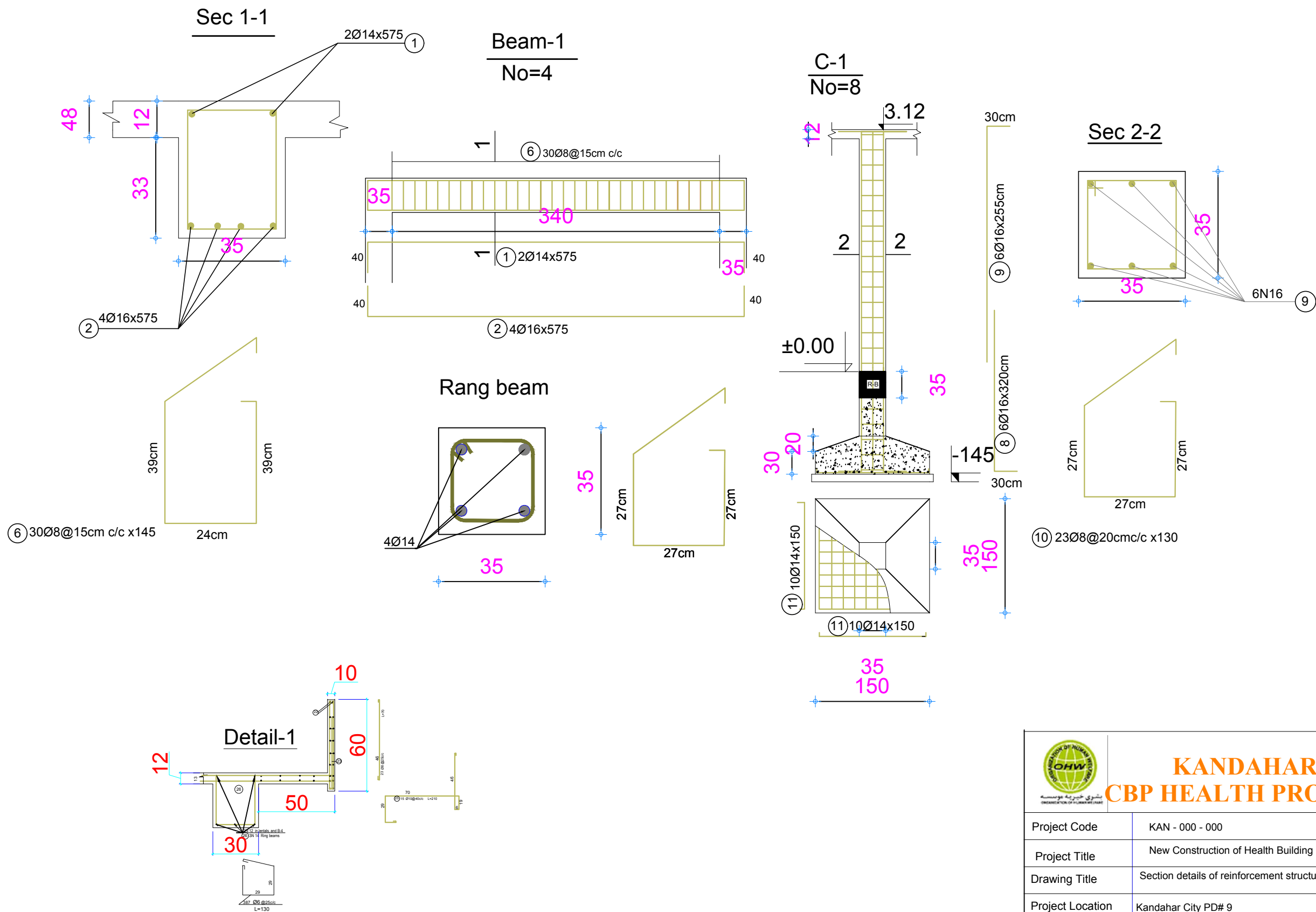
- 1.Slab thickness: for slabs is 12 cm
- 2.for parapets is 10
- 3.cover : for slab is 2cm ,for beams is 2.5cm for column is 3cm , for foundation is 6cm
- 4.plaster thickness: for walls shall be 2cm , for ceiling shall be 1cm of cement , lime ,sand at ratio of (1;5;10)
- 5.forms work : shall be straight , perpendicular structural and visual requirement ,do not use weak formwork that Causee bulges, gape or holes in the poured concretee. 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 concerte mark shall be in
Foundation is 200kg/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. the dimension of foundation is designed for Bearing capacity =1500kg/sqm
if the BC is smaller than this ,the dimension must be chang according bearing capacity of that earth.site Engineer must notify the Head - Guarter (HQ)engineer in office.
10. Overlap of steel bar on columns shall be 49 times of diame of main steel bar of columns or as show in structure drawing.
- 11,All footings designed for maxal mam load & moment of the columns,
- 12 Water shall be clean and free of harmful matter sach as oil ,salts ,alkal,etc.
- 13.Mortar of Stone Masonry shall be at ratio (1:4) of cement and clean sand.



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 جمهوری اسلامی افغانستان وزارت بهداشت و وزارت برنامه و بودجه		KANDAHAR CBP HEALTH PROJECT		 UNHCR The UN Refugee Agency Afghanistan	
Project Code		KAN - 000 - 000			
Project Title		New Construction of Health Building			
Drawing Title		Plan foundation of building			
Project Location		Kandahar City PD# 9			
Drawn By:		Designed By:	Checked By:	Reveiw By:	Approved By:
Name	Eng.Amir M.	Eng.Amir M.	Eng.F.Nazari	DoPH	UNHCR
Sign					
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Sheet No:					00 of 00
Scales:					1:100

Section details of reinforcement structures



<div><div></div><div><div>KANDAHAR</div><div>CBP HEALTH PROJECT</div></div><div> UNHCR Afghanistan</div></div>					
Project Code	KAN - 000 - 000				
Project Title	New Construction of Health Building				
Drawing Title	Section details of reinforcement structures				
Project Location	Kandahar City PD# 9				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No
Eng.Amir M.	Eng.Amir M.	Eng.F.Nazari	DoPH	UNHCR	00 of 00
					Scales:
					1:100

GENERAL REQUIREMENT

1. CEMENT :

ORDINARY PORTLAND CEMENT

a) SETTING TIME :

INITIAL SETTING TIME : NOT LESS THAN 45 MINUTES

FINAL SETTING TIME : NOT GREATER THAN 8 HOURS

b) STRENGTH :

COMPRESSING STRENGTH (STANDARD CUBE) :

3 DAYS : 12.41 N/mm² (1800 psi)

7 DAYS : 19.30 N/mm² (2800 psi)

28 DAYS : 24.13 N/mm² (3500 psi)

2. REINFORCEMENT :

a) STRENGTH :

YIELD STRENGTH (f_y) OF DEFORMED BAR SHALL NOT BE LESS THAN AND 413MPa N/mm² (60,000 psi)

FOR ALL MEMBER AND THE STEEL SHOULD CONFORM ASTM - A615- OR BS4461 60.GRADE.

B) SPLICES IN REINFORCEMENT

SPLICES IN REINFORCEMENT IF NECESSARY SHALL BE MADE ONLY AS AUTHORISED BY THE ENGINEER.

SPLICES IN REINFORCEMENT AT POINTS OF MAXIMUM STRESS IN SLABS, BEAMS AND GIRDERS SHOULD BE AVOIDED.

LAP LENGTH WILL BE :

i) FOR TENSION DEFORMED BAR :

50 BAR DIAMETER WITHOUT HOOKS

30 BAR DIAMETER WITH STANDARD HOOKS

ii) FOR COMPRESSION DEFORMED BAR :

24 BAR DIAMETER WITHOUT HOOKS

3. CONCRETE :

i) FOR VERTICAL MEMBER, BASE SLAB, DECK SLAB, AND WING WALL :

28 DAYS STANDARD CYLINDER CRUSHING STRENGTH : $f_c' = 21$ N/mm² (3000 psi)

28 DAYS STANDARD CUBE CRUSHING STRENGTH : $f_c' = 24.13$ N/mm² (3500 psi)

MIX RATIO BY VOLUME, CEMENT : SAND : COARSE AGGREGATE (PCC 1:2:4 & RCC 1 : 1.5 : 3)

4. MINIMUM CLEAR COVER TO REINFORCEMENT BAR :

a) FOR DIFFERENT RCC MEMBERS:

FOOTING - 50 mm

COLUMN - 40 mm

BEAM - 25 mm

SLAB - 20 mm

b) MEMBERS CAST AGAINST AND PERMANENTLY EXPOSED TO NON-SALINE WATER/SOIL : 75 mm

c) MEMBERS PERMANENTLY EXPOSED TO SALINE WATER / SOIL: 100 mm

5. MIXER MACHINE AND VIBRATOR MUST BE USED IN ALL RCC CASTING.

6. WRITTEN DIMENSIONS ARE TO BE TAKEN IN PREFERENCE TO SCALED ONES.

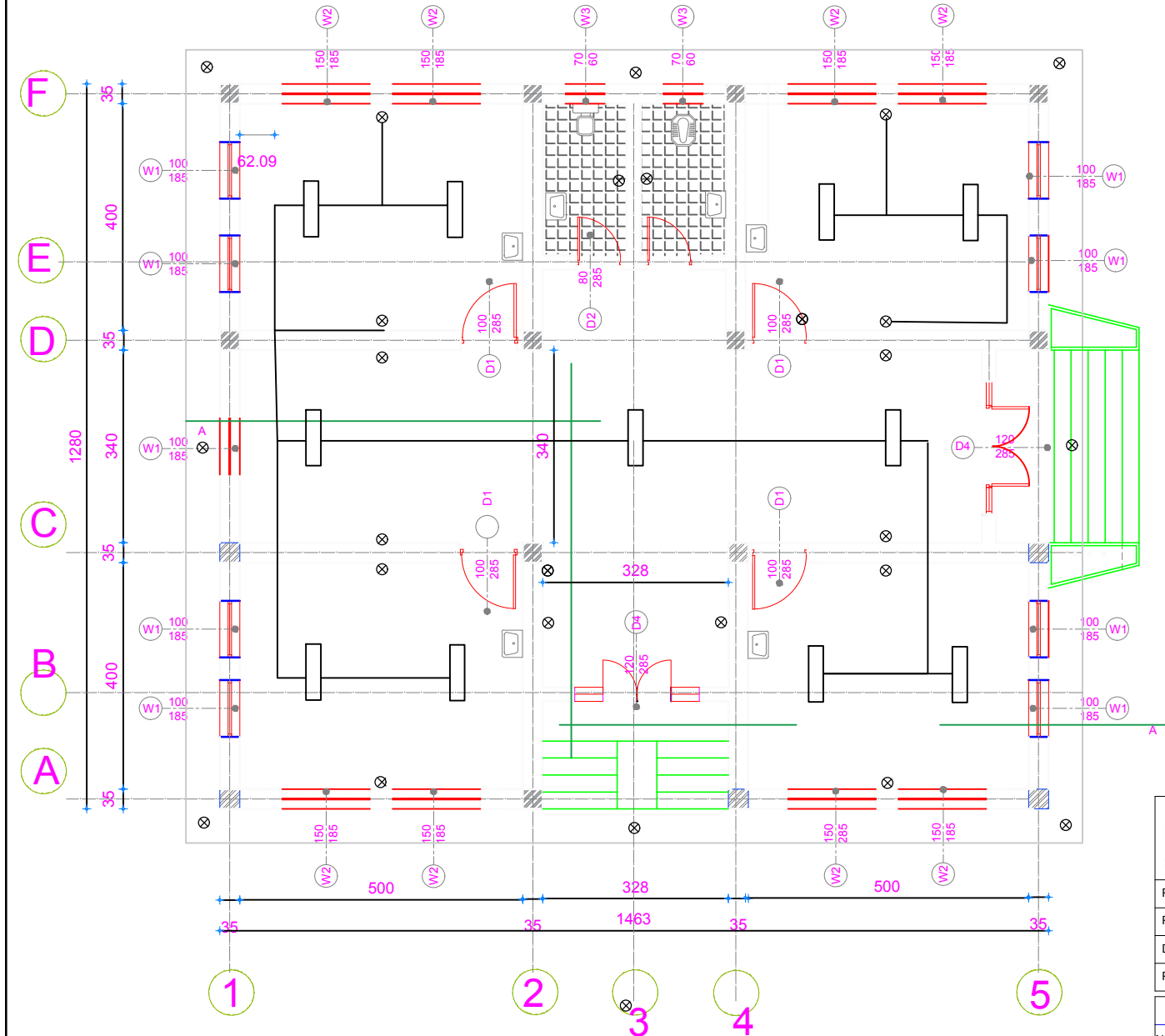
7. CONSTRUCTION JOINTS IN ADDITION TO THE PLACES SHOWN IN THE DRAWING SHALL BE PROVIDED AS PER DIRECTION OF THE ENGINEER-IN-CHARGE.

8. PLACING OF CONCRETE UNDER WATER

CONCRETE DEPOSITED IN WATER SHALL CONTAIN 10% ADDITIONAL CEMENT. IT SHALL BE PLACED IN A COMPACT MASS IN ITS FINAL POSITION BY MEANS OF A TEMIE OR A BOTTOM-OPENING BUCKET, AND SHALL NOT BE DISTURBED AFTER DEPOSITION.

PLAN ELECTRICAL HEALTH BUILDING



S1:100



Electrical work		
Ceiling Fluorescent light fixture (2x36)72W,50Hz good quality made in Chains.	16	pcs
Ceiling Fluorescent light fixture (1x40)40W,50Hz good quality made in Chains.	10	pcs
Two pole switch under plaster,10A, 1phase good quality made in Iran	8	pcs
Two pole switch under plaster,10A, 1phase good quality made in Iran	10	pcs
Socket outlet, single phase 16Amp good Quality	16	pcs
Wire 1x2.5mm2 good quality made in Iran.	400	M
Wire 1x4mm2 good quality made in Iran.	300	M
PVC conduit 1 inch.	220	M
Cable 1x25mm2 for Grounding good quality made in Iran.	50	M
PVC conduit 2 inch.	12	M
Distribution panel complete 1x40Amp mine CB with 2x16Amp automatic fuse (CB) +RCBO 6X20Amp automatic fuse (CB)+rcbo.(ResidualCurrentCircuit Breaker with Over current).1=0.03mali Amper. t=0.15sec.	1	pcs
Ceiling PVC joint box.	50	pcs
Grounding rod 3meter length ,20mm diametr according drawing complete set made in Turkish.	3	pcs
Cable 1(3x25mm2) for mane feeder good quality made in Turkish.	50	M
PVC conduit 3 " inch good quality made in Iran.	50	M
complate electric fanwith requerment materials	7.00	Set
Electric fitting tools	1.00	Ls
Installation of complete electric materials	1.00	Ls

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Project Code	KAN - 000 - 000				
Project Title	New Construction of Health Building				
Drawing Title	Electrical Plan of building				
Project Location	Kandahar City PD# 9				
Drawn By:	Designed By:	Checked By:	Reveiw By:	Approved By:	Sheet No:
Name Eng.Amir M.	Eng.Amir M.	Eng.F.Nazari	DoPH	UNHCR	00 of 00
Sign					Scales:
Date					1:100