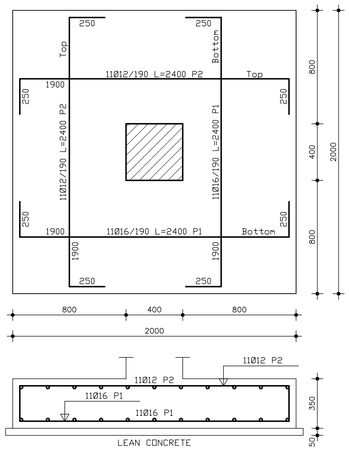
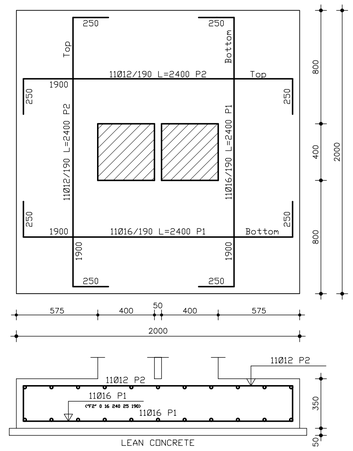
F1 (QUANTITY = 54)

2000/2000 t=350



F2 (QUANTITY = 6)

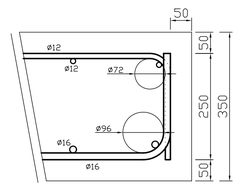
2000/2000 t=350



Pos	Dia	#	Length(mm)	Total(mm)
1	16	1320	2400	3168000
2	12	1320	2400	3168000

Dia	Total Length(m)	Weight(kg)
12	3168	2811
16	3168	4998

Total Weight = 7809 Kg.



SINGLE FOOTING

SCALE 1:10

SCALE 1:20

ASBUILT

SYMBOL	DESCRIPTION	DATE	APR
	REVISED AS BUILT	06.05.06	
	100% DESIGNS	11.16.05	

DESIGNED BY : S. BAKIR
DATE : 06–05–2006
DWN BY : S. OZDOGAN
SUBMITTED BY : STAND
CHK BY : A.R. BAKIR
FILE NO : DP01–HH–S05

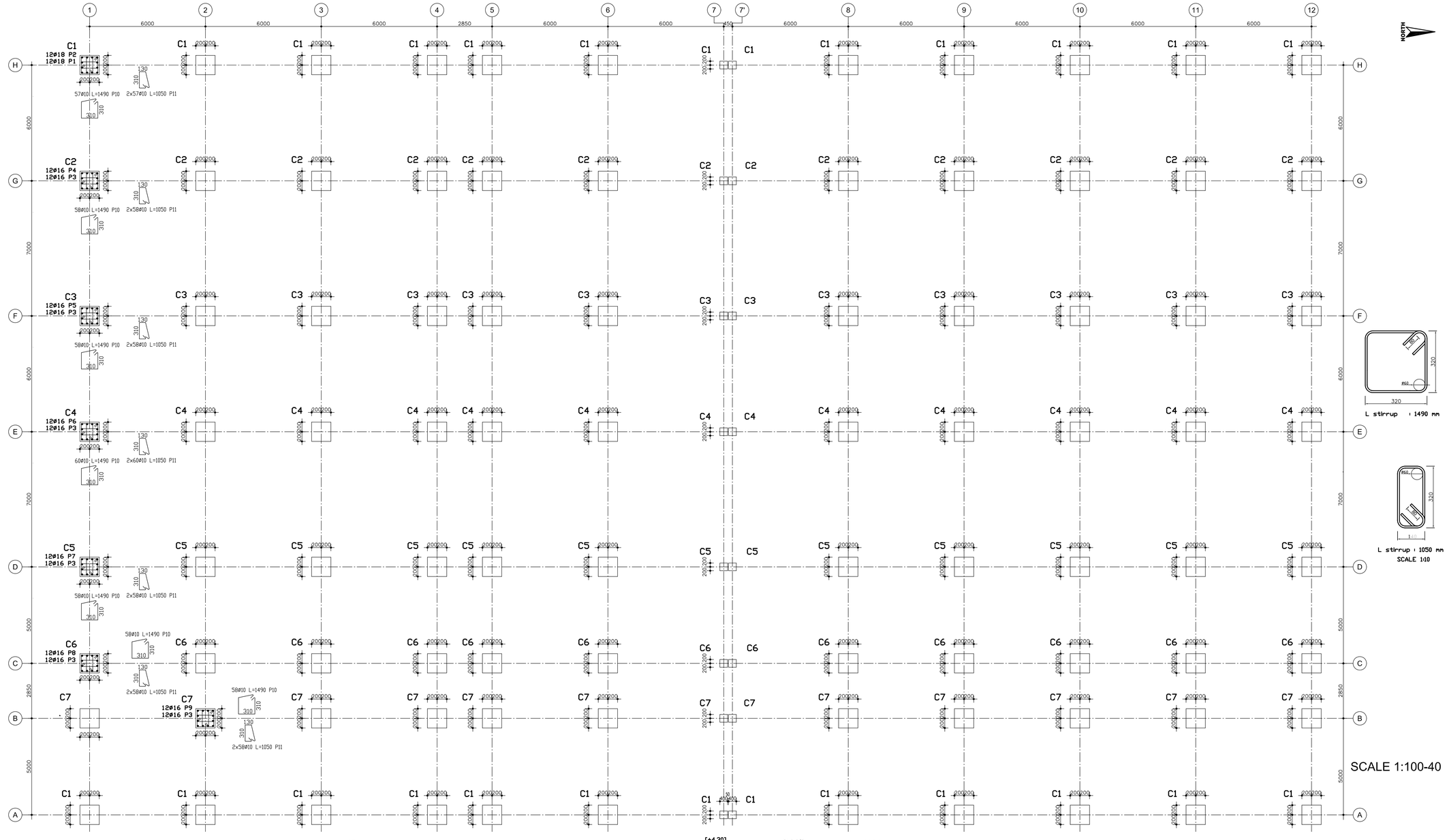
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

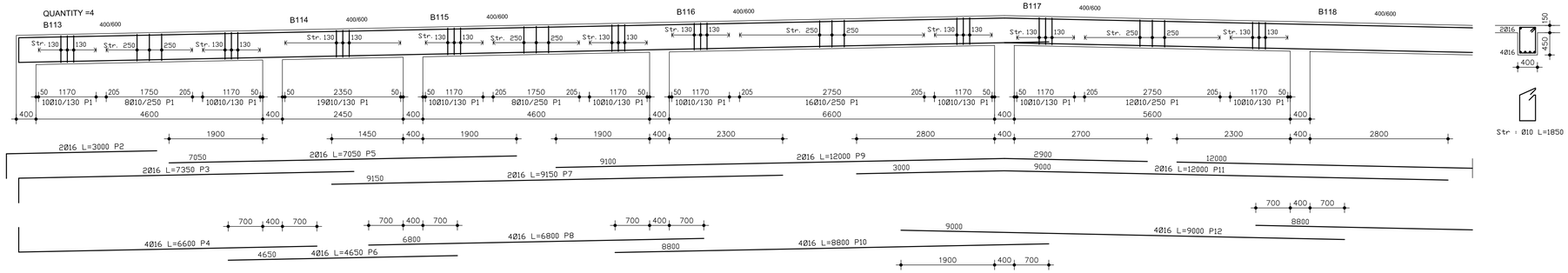
KOLİN CO.INC in association with IRMAK, STAND, BESELI, DELTA OM
Design/Builder

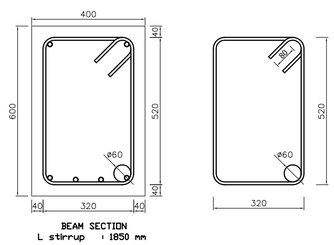
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS–BUILT
SINGLE FOOTING DETAILS

SHEET REFERENCE NUMBER :

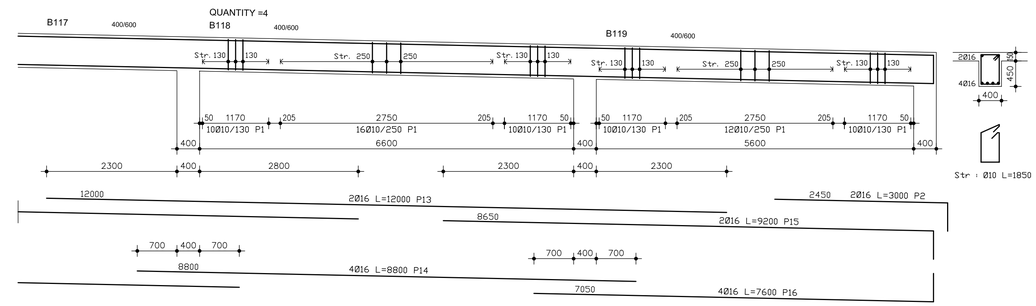
DP01–HH–S05

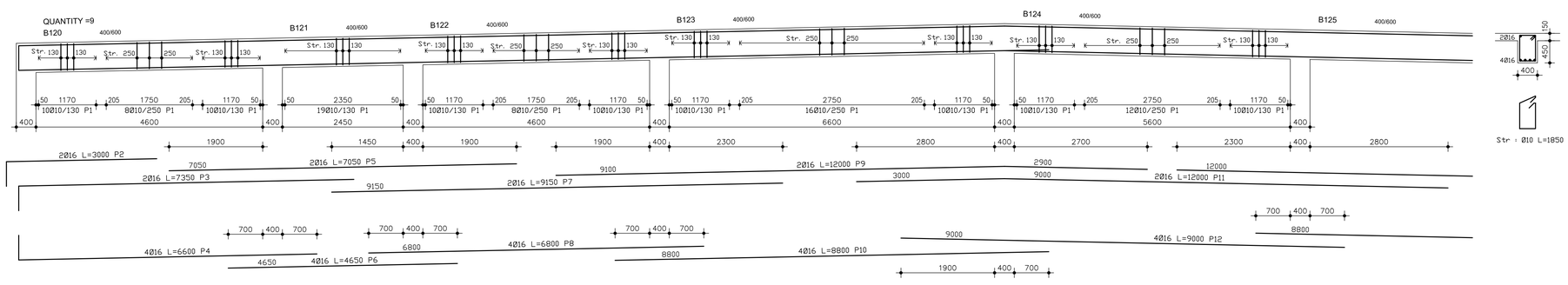

A B C D E F G H
1 2 3 4 5 6 7 7' 8 9 10 11 12
6000 6000 6000 2850 6000 6000 450 6000 6000 6000 6000 6000
6 5 4 3 2 1
H G F E D C B A
6000 7000 6000 7000 5000 2850 5000
C1 12Ø18 P2 12Ø18 P1
57Ø10 L=1490 P10 2x57Ø10 L=1050 P11
C2 12Ø16 P4 12Ø16 P3
58Ø10 L=1490 P10 2x58Ø10 L=1050 P11
C3 12Ø16 P5 12Ø16 P3
58Ø10 L=1490 P10 2x58Ø10 L=1050 P11
C4 12Ø16 P6 12Ø16 P3
60Ø10 L=1490 P10 2x60Ø10 L=1050 P11
C5 12Ø16 P7 12Ø16 P3
58Ø10 L=1490 P10 2x58Ø10 L=1050 P11
C6 12Ø16 P8 12Ø16 P3
58Ø10 L=1490 P10 2x58Ø10 L=1050 P11
C7 12Ø16 P9 12Ø16 P3
58Ø10 L=1490 P10 2x58Ø10 L=1050 P11
200200 200200 200200

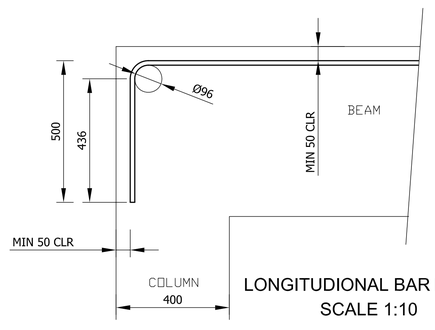




SCALE 1:10





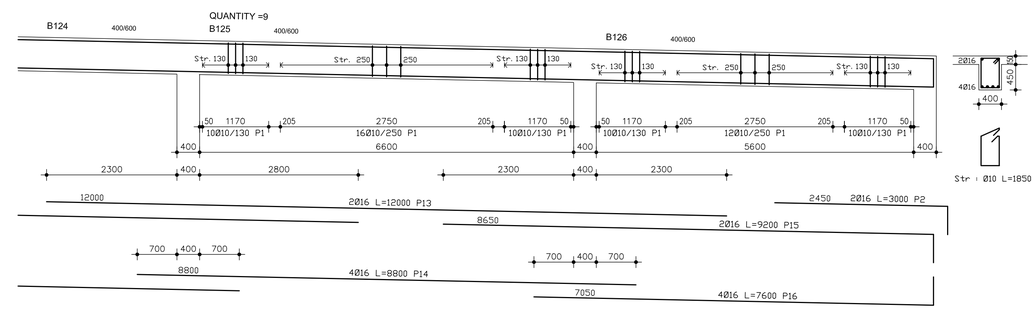


LONGITUDIONAL BAR BEND DETAIL
SCALE 1:10

Pos	Dia	#	Leng.(mm)	Total(mm)
1	10	2743	1850	5074550
2	16	42	3000	126000
3	16	26	7350	191100
4	16	52	6600	343200
5	16	26	7050	183300
6	16	52	4650	241800
7	16	26	9150	237900
8	16	52	6800	353600
9	16	26	12000	312000
10	16	52	8800	457600
11	16	26	12000	312000
12	16	52	9000	468000
13	16	26	12000	312000
14	16	52	8800	457600
15	16	26	9200	239200
16	16	52	7600	395200

Dia	Total Length(m)	Weight(kg)
10	5075	3127
16	4631	7306

Total Weight = 10433 Kg.



SCALE 1:50

ASBUILT

SYMBOL	DESCRIPTION	DATE	APR
	REVISED AS BUILT	06.05.06	
	100% DESIGNS	11.16.05	

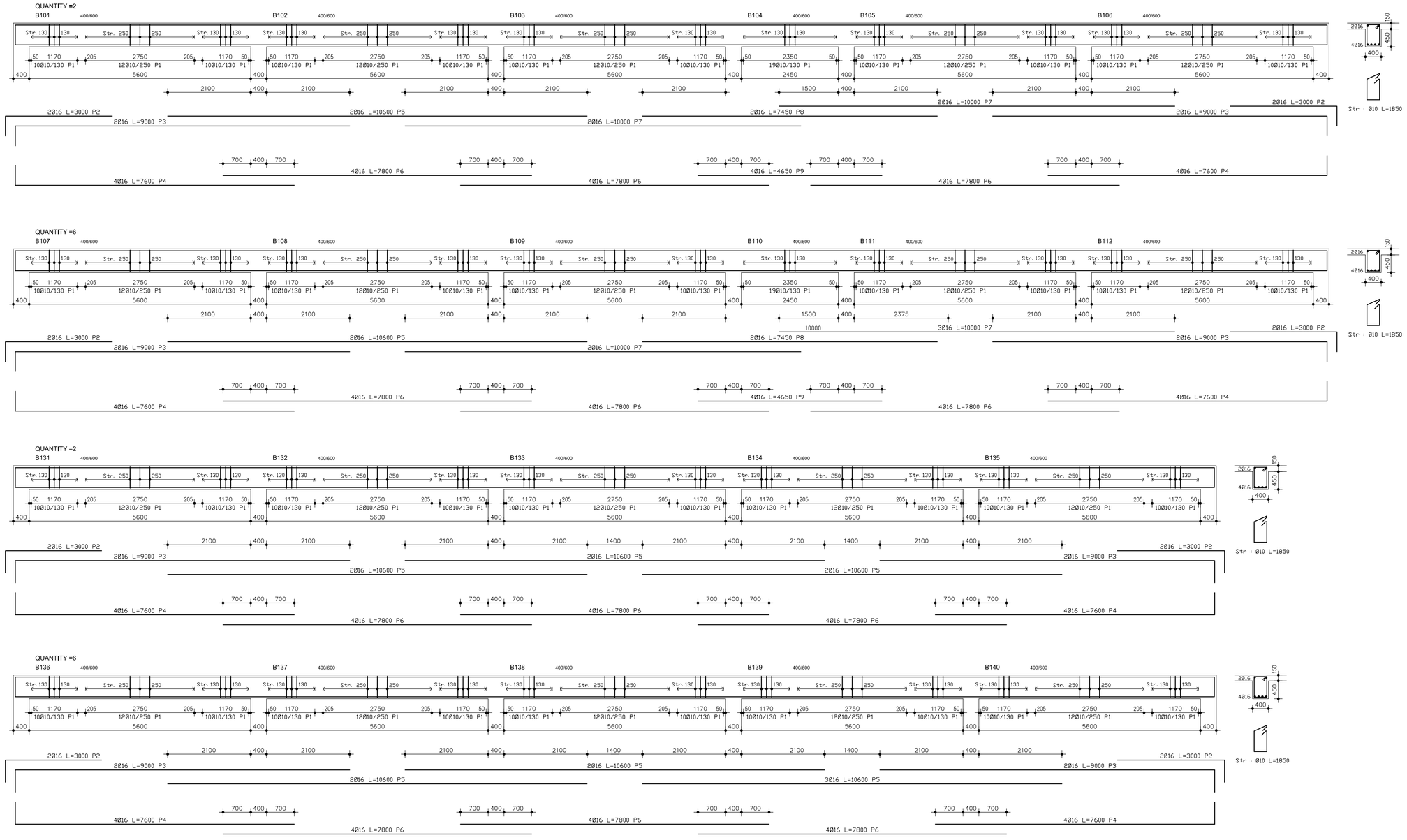
DESIGNED BY : S. BAKIR
DATE : 06–05–2006
DWN BY : S. OZDOGAN
SUBMITTED BY : STAND
CHK BY : A.R. BAKIR
FILE NO : DP01–HH–S07

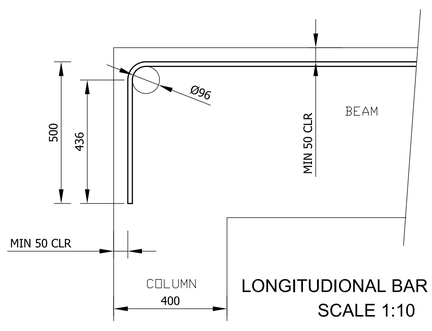
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

KOLİN COJINC in association with
IRMAK, STAND, BESELI, DELTA OM
Design/Builder

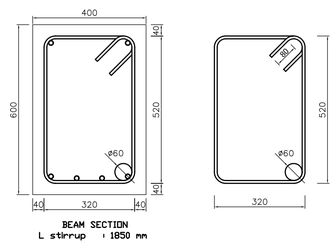
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS–BUILT
BEAMS DETAILS–1

SHEET REFERENCE NUMBER :
DP01–HH–S07





LONGITUDIONAL BAR BEND DETAIL
SCALE 1:10



BEAM SECTION
L stirrup : 1850 mm

SCALE 1:10

Pos	Dia	#	Leng.(mm)	Total(mm)
1	10	2712	1850	5017200
2	16	64	3000	192000
3	16	64	9000	576000
4	16	128	7600	972800
5	16	70	10600	742000
6	16	192	7800	1497600
7	16	38	10000	380000
8	16	16	7450	119200
9	16	32	4650	148800

Dia	Total Length(m)	Weight(kg)
10	5017	3092
16	4628	7301

Total Weight = 10393 Kg.

SCALE 1:50

ASBUILT

SYMBOL	DESCRIPTION	DATE	APR
	REVISED AS BUILT	06.05.06	
	100% DESIGNS	11.16.05	

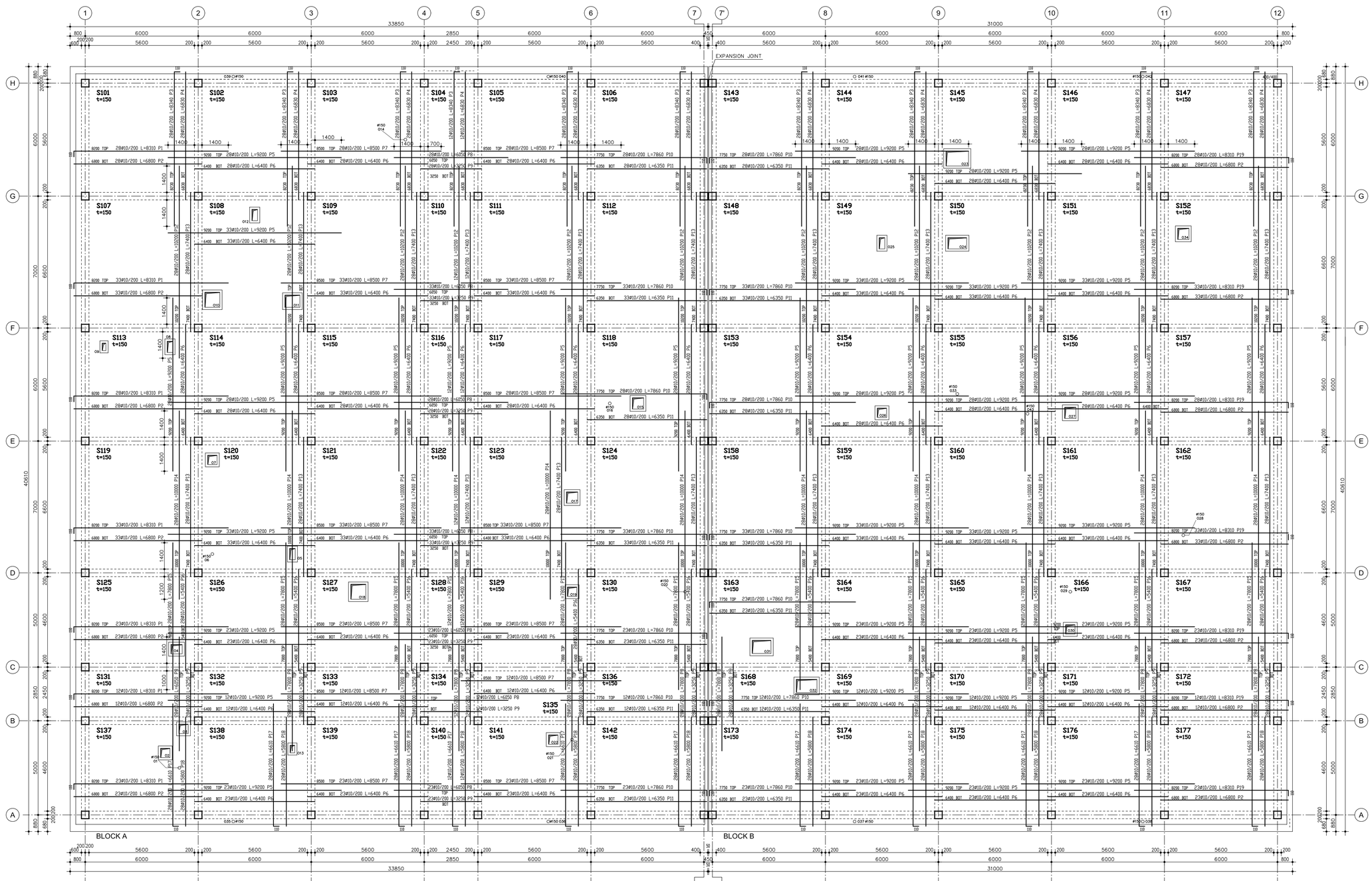
DESIGNED BY : S. BAKIR
DATE : 06–05–2006
DWN BY : S. OZDOGAN
SUBMITTED BY : STAND
CHK BY : A.R. BAKIR
FILE NO : DP01–HH–S08

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

KOLİN COJINC in association with IRMAK, STAND, BESELI, DELTA OM
Design/Builder

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS–BUILT
BEAMS DETAILS–2

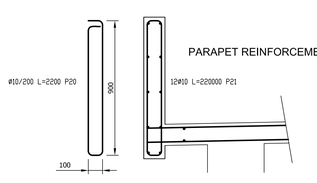
SHEET REFERENCE NUMBER :
DP01–HH–S08



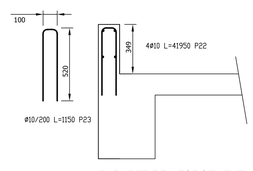
Pos	Dia	#	Len(mm)	Total(mm)
1	10	180	8310	1495800
2	10	360	6800	2448000
3	10	292	8340	2435280
4	10	292	6830	1994360
5	10	1012	9200	9314400
6	10	1372	6400	8780800
7	10	360	8500	3060000
8	10	472	6050	2855600
9	10	472	3250	1534000
10	10	360	7860	2829600
11	10	360	6350	2286000
12	10	292	10200	2978400
13	10	584	7400	4321600
14	10	292	10000	2920000
15	10	292	7800	2277600
16	10	292	5400	1576800
17	10	292	6610	1930120
18	10	292	5800	1693600
19	10	180	8310	1495800
20	10	1048	2200	2305600
21	10	12	220000	2640000
22	10	4	41950	167800
23	10	201	1150	231150
24	16	336	2600	873600
25	16	400	1600	640000
26	16	64	2000	128000

Dia	Total Len(m)	Weight(kg)
10	63568	39172
16	1642	2590

Total Weigth = 41762 Kg.

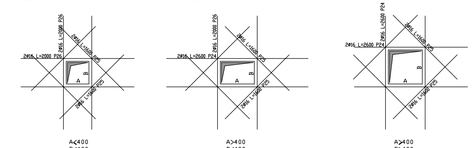


SCALE 1:20



PARAPET REINFORCEMENT

SCALE 1:20



SCALE 1:100

ASBUILT

SYMBOL	DESCRIPTION	DATE	APR
	REVISED AS BUILT	06.05.06	
	100% DESIGNS	11.16.05	

DESIGNED BY : S. BAKIR	DATE : 06-05-2006	
DWN BY : S. OZDOGAN	SUBMITTED BY : STAND	
CHK BY : A.R. BAKIR	FILE NO : DP01-HH-S09	

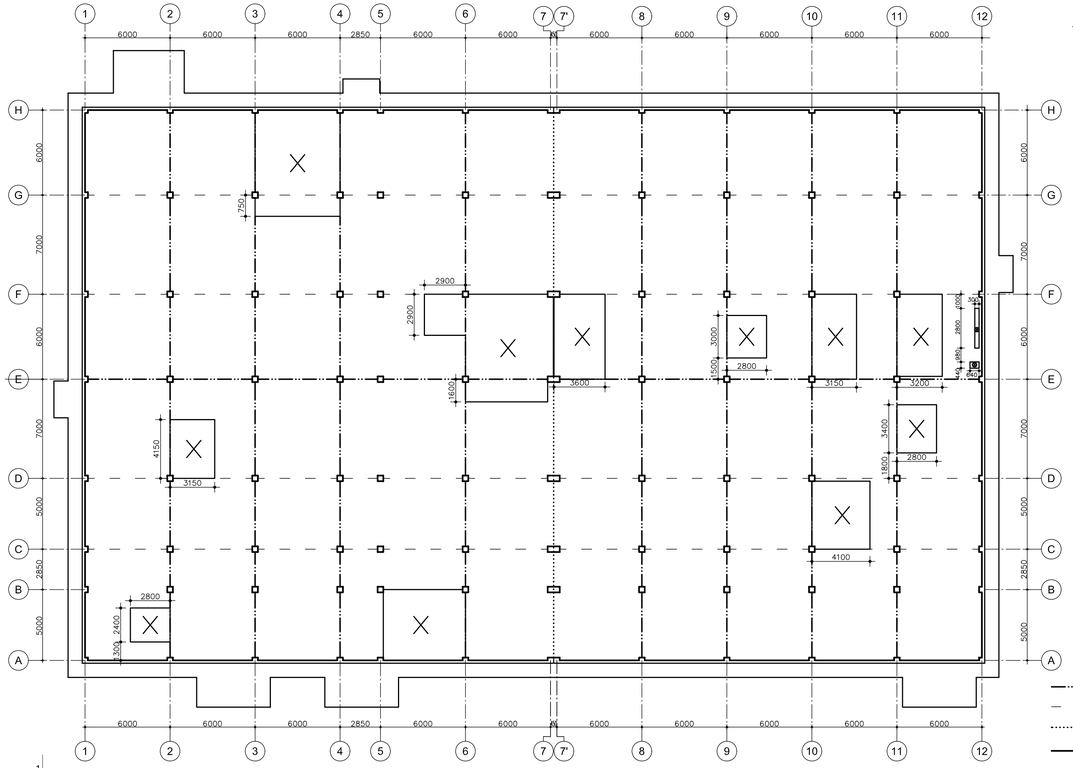
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

KOLIN CO.INC in association with IRMAK, STAND, BESELI, DELTA OM
Design/Builder

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN

DRAWING OF WORK AS-BUILT
ROOF SLAB REINFORCEMENT PLAN

SHEET REFERENCE NUMBER :
DP01-HH-S09

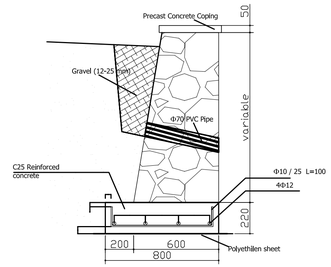


1 SLAB ON GRADE PLAN
SCALE 1:200

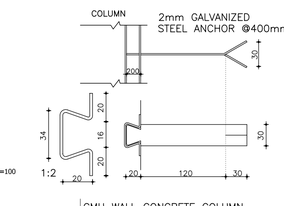
NOTES:

1. ALL CMU SHALL BE 2 – CELL BLOCK AND HAVE A SPECIFIED COMPRESSIVE STRENGTH OF 14 MPa AT 28 DAYS.
2. MINIMUM MORTAR COMPRESSIVE STRENGTH – 12 MPa AT 28 DAYS.
3. CELLS WHICH CONTAIN REINFORCING STEEL SHALL BE FILLED SOLIDLY WITH 12 MPa CONCRETE GROUT
4. VERTICAL CELLS TO BE FILLED SHALL HAVE VERTICAL ALIGNMENT SUFFICIENT TO MAINTAIN A CLEAR UNOBSTRUCTED CONTINUOUS VERTICAL CELL NOT LESS THAN 50x75 mm IN PLAN DIMENSIONS.
5. ANCHORAGE TO THE CONCRETE COLUMN SHALL BE WITH DOVE TAIL ANCHORS FIRST CELL OF THE ANCHORED CMU WALL SHALL BE GROUTED AND REINFROCED.
6. HORIZONTAL CMU REINFORCEMENT SHALL BE SPACED 400mm VERTICALLY.
7. EXTERIOR CMU WALLS SHALL BE GROUTED AND REINFORCED AT 600mm INTERVALS
8. INTERIOR CMU WALLS SHALL BE GROUTED AND REINFORCED AT 800mm INTERVALS
9. CMU WALL DETAILS ARE FOR BOTH 100mm AND 200mm THICK WALLS
10. RIBBED BARS MAY BE ACCEPTABLE FOR DOWEL IF THE RIBS ARE WELL COATED WITH A GREASY FINISH WHICH WILL LET THE BAR TO DISPLACE IN CONCRETE
11. CONSTRUCTION JOINTS WILL BE FORMED BY PLACING CONCRETE IN STAGES
12. CONTRACTION JOINTS WILL BE FORMED IN A SLAB BY PLACING FIBERBOARDS OR PLASTIC INSERTS OR BY CUTTING THE HARDENED CONCRETE
13. AT EACH JOINT MAIN SLAB REINFORCEMENT IS DISCONTINUOUS BUT A DOWEL BAR IS PLACED

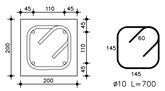
CONSTRUCTION JOINT
CONTRACTION JOINT
EXPANSION JOINT
ISOLATION JOINT
DEPRESSED SLAB



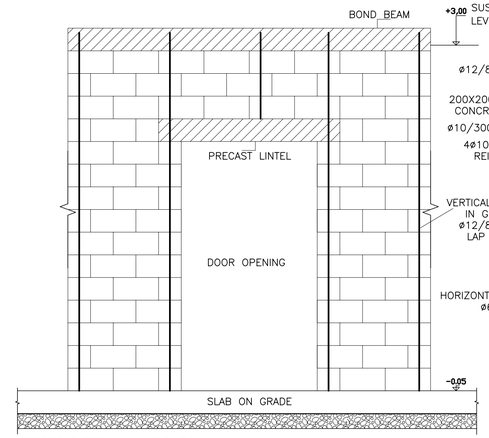
18 TOEWALL SECTION
SCALE 1:20



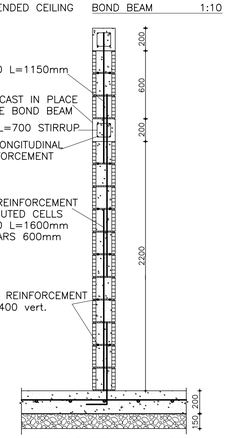
19 CMU WALL CONCRETE COLUMN DOVE TAIL ANCHOR DETAIL
SCALE 1:4



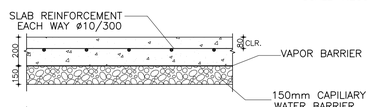
BOND BEAM 1:10



15 INTERIOR PARTION WALL ELEVATION END AT SUSPENDED CEILING
SCALE 1:25

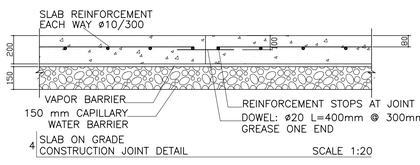


20 INTERIOR PARTITION WALL SECTION END AT SUSPENDED CEILING
SCALE 1:25

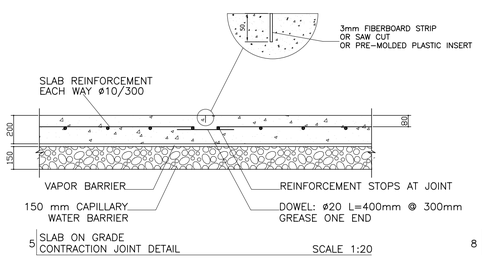


2 SLAB ON GRADE REINFORCEMENT DETAIL
SCALE 1:20

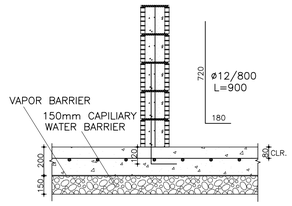
3 EXPANSION JOINT THICKENED SLAB EDGE DETAIL
SCALE 1:20



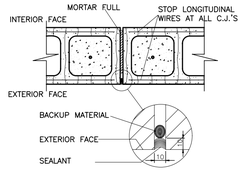
4 SLAB ON GRADE CONSTRUCTION JOINT DETAIL
SCALE 1:20



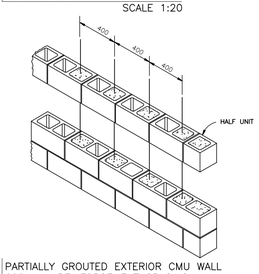
5 SLAB ON GRADE CONTRACTION JOINT DETAIL
SCALE 1:20



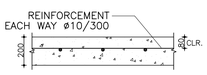
6 SLAB ON GRADE PARTITION WALL CONNECTION DETAIL
SCALE 1:20



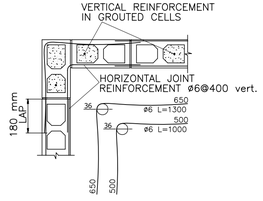
7 CMU WALL CONSTRUCTION JOINT DETAIL
SCALE 1:20



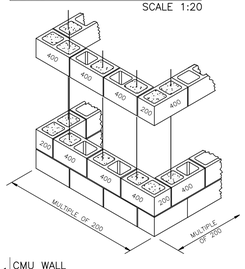
8 PARTIALLY GROUTED EXTERIOR CMU WALL 600 mm REINFORCEMENT SPACING
NOT TO SCALE



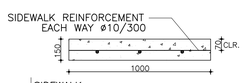
9 GENERATOR INCINERATOR CAR PARK REINFORCEMENT DETAIL SCALE 1:20



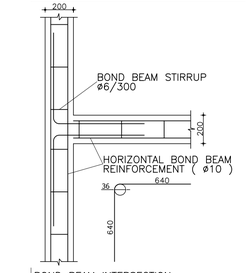
10 CMU WALL CORNER REINFORCEMENT DETAIL
SCALE 1:20



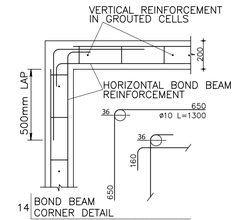
11 CMU WALL CORNER DETAIL
NOT TO SCALE



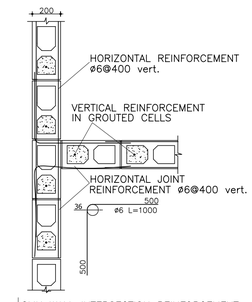
12 SIDEWALK REINFORCEMENT DETAIL SCALE 1:20



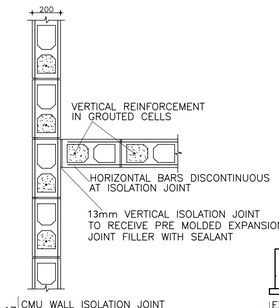
13 BOND BEAM INTERSECTION DETAIL
SCALE 1:20



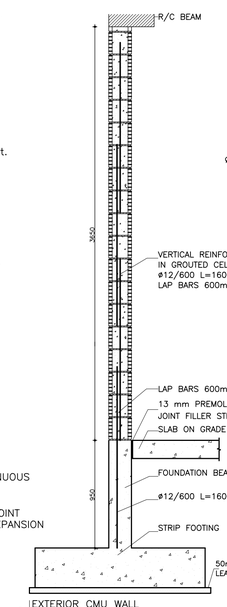
14 BOND BEAM CORNER DETAIL
SCALE 1:20



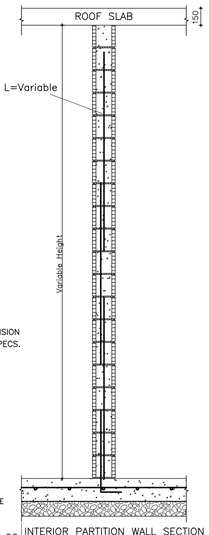
16 CMU WALL INTERSECTION REINFORCEMENT DETAIL
SCALE 1:20



17 CMU WALL ISOLATION JOINT DETAIL
SCALE 1:20



21 EXTERIOR CMU WALL TYPICAL SECTION
SCALE 1:25



22 INTERIOR PARTITION WALL SECTION END AT ROOF LEVEL
SCALE 1:25

ASBUILT

SYMBOL	DESCRIPTION	DATE	APR
	REVISED AS BUILT	06.05.06	
	100% DESIGNS	11.16.05	

DESIGNED BY : S. BAKIR	DATE : 06–05–2006	
DWN BY : S. OZDOGAN	SUBMITTED BY : STAND	
CHK BY : A.R. BAKIR	FILE NO : DP01–HH–S10	

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

KOLIN CO.INC in association with Design/Builder
IRMAK, STAND, BESELI, DELTA OM

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS–BUILT
SLAB ON GRADE PLAN
SLAB AND WALL DETAILS

SHEET REFERENCE NUMBER :
DP01–HH–S10