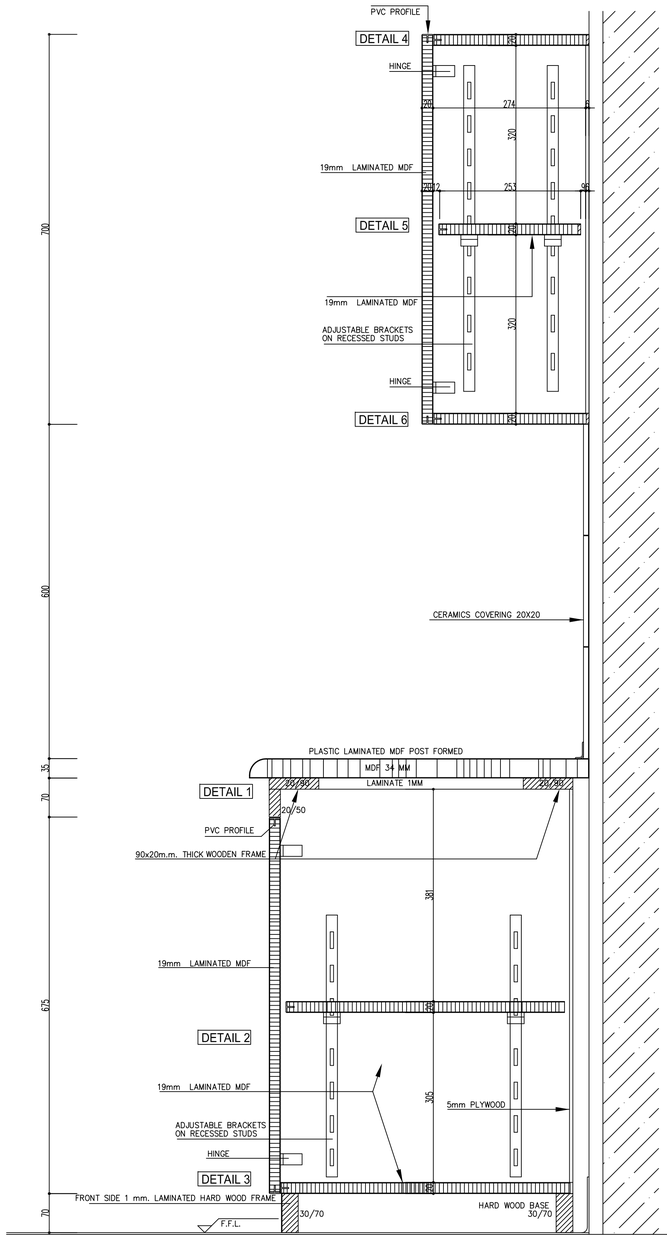
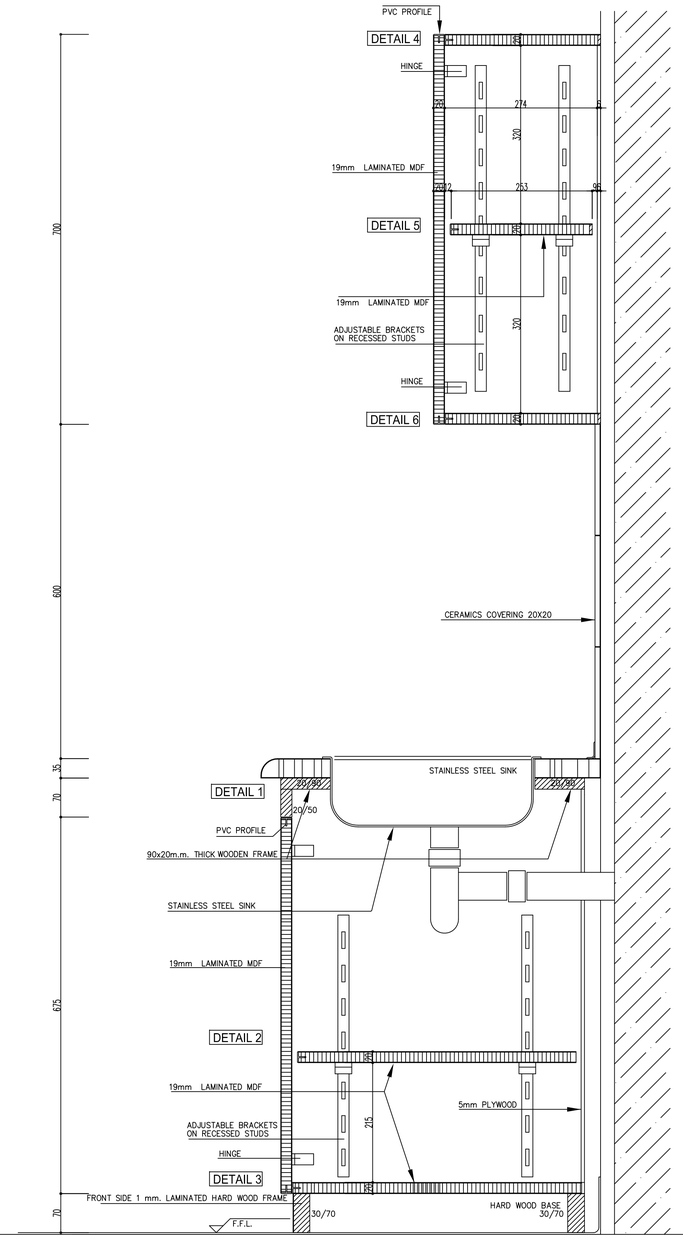
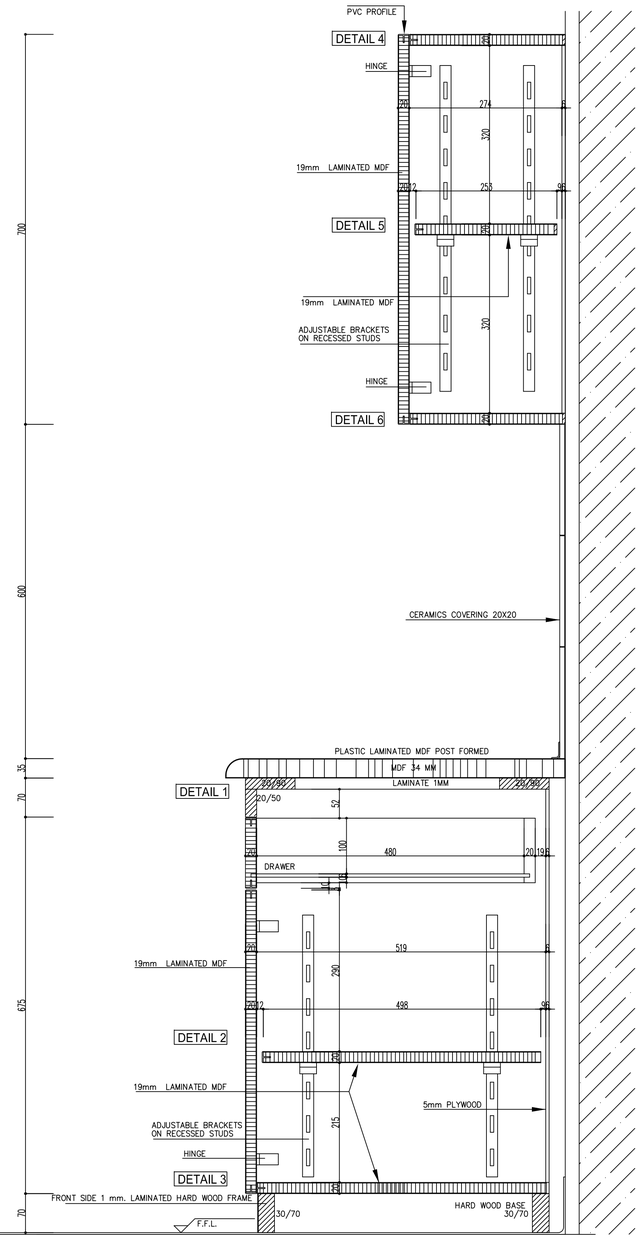


SECTION 1-1



SECTION 3-3



SECTION 2-2

COUNTER SECTIONS
SCALE 1:5

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
2	100% DESIGNS	11.16.05	

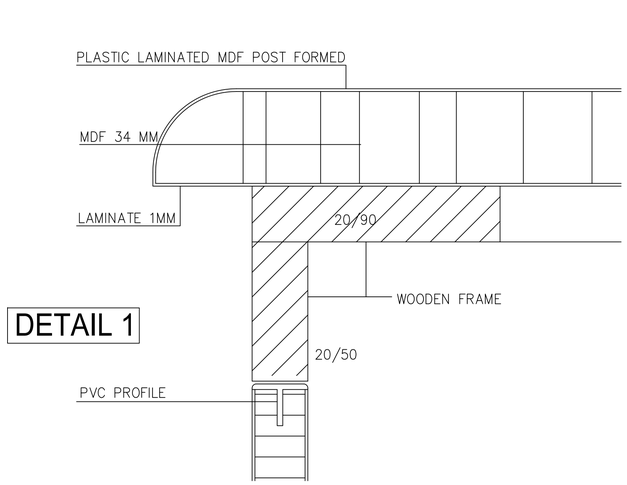
DESIGNED BY : B.IRMAK
DRWN BY : B.IRMAK
CHK BY : G.IRMAK
DATE : 06.05.2006
REVISED BY : IRMAK
FILE NO : DP01-HH-A17

US Army Corps of Engineers
Afghanistan Engineer District
KABUL, Afghanistan

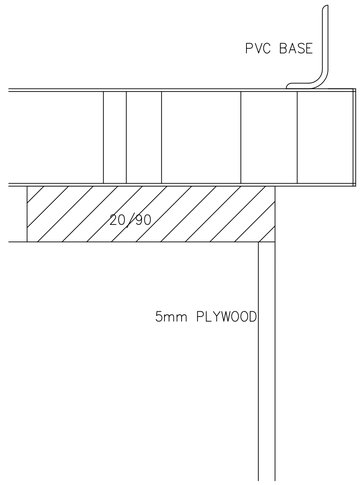
KOLİN
CO.INC in association with
IRMAK, STAND, BESELI, DELTA OM
Design/Builder

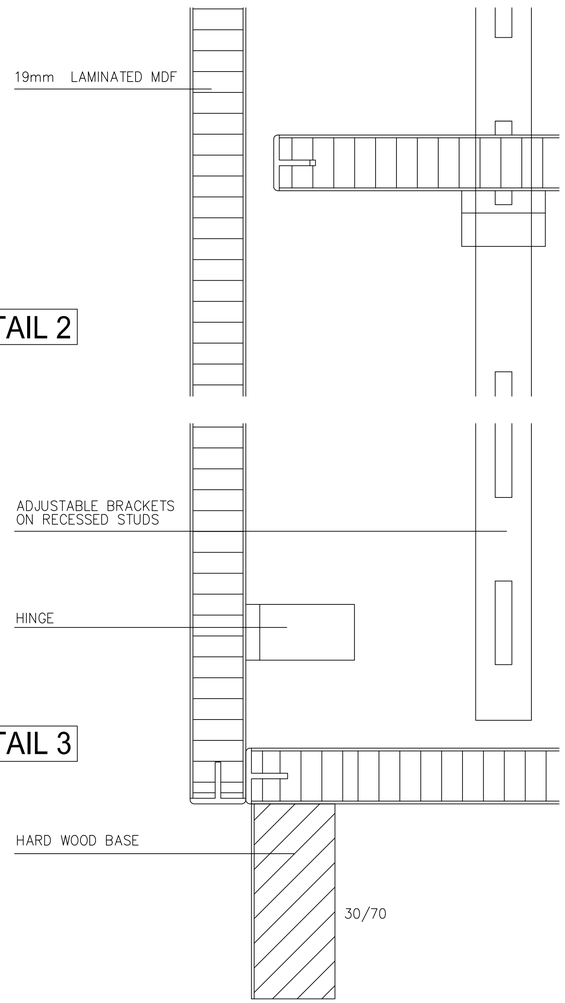
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS-BUILT
COUNTER SECTIONS

SHEET REFERENCE NUMBER :
DP01-HH-A17



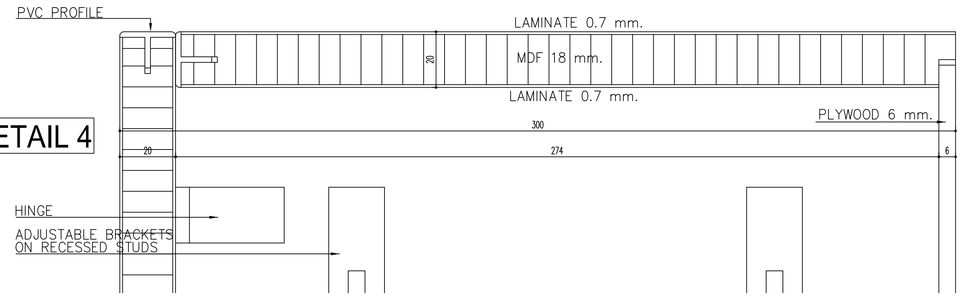
DETAIL 1



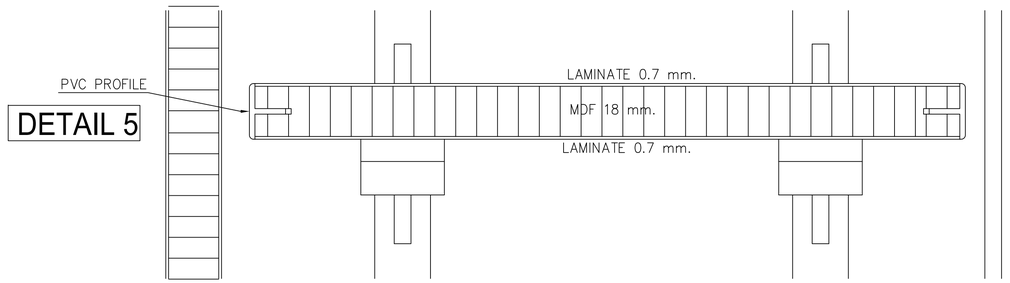


DETAIL 2

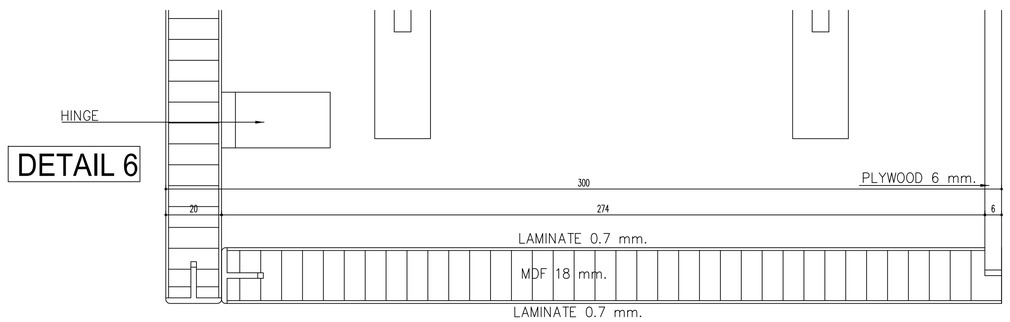
DETAIL 3



DETAIL 4



DETAIL 5



DETAIL 6

LABORATORY COUNTERS POINT DETAILS
SCALE 1:1

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT 100X DESIGNS	06.05.06 11:16:05	

DESIGNED BY : B.IRMAK
DWN BY : B.IRMAK
CHK BY : G.IRMAK
DATE : 06.05.2006
REVISED BY : IRMAK
FILE NO : DP01-HH-A18

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afganistan

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

DESIGN/BUILD
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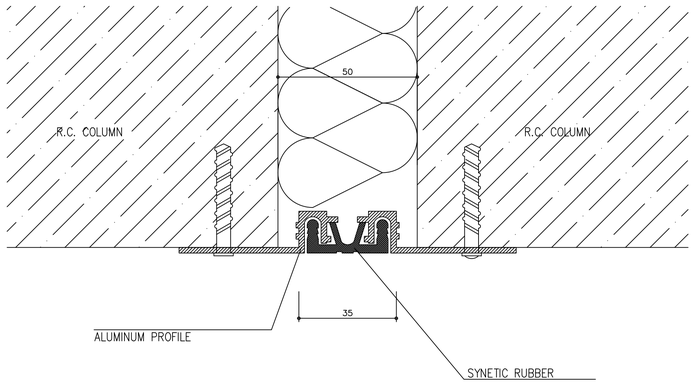
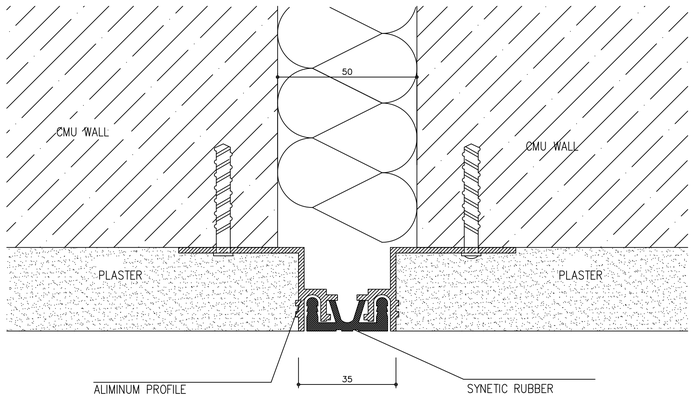
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
LABORATORY COUNTERS POINT DETAILS

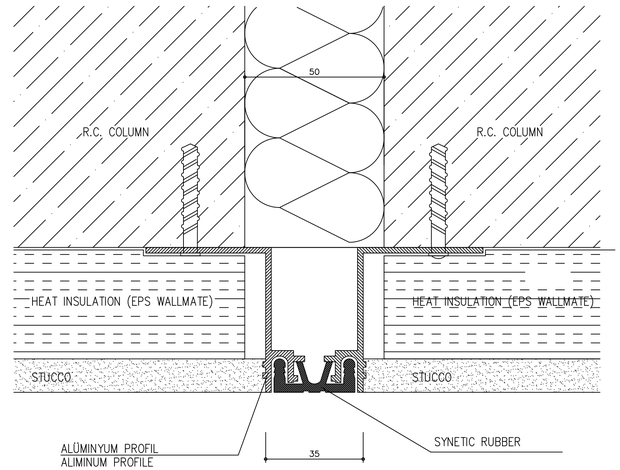
SHEET REFERENCE NUMBER :
DP01-HH-A18



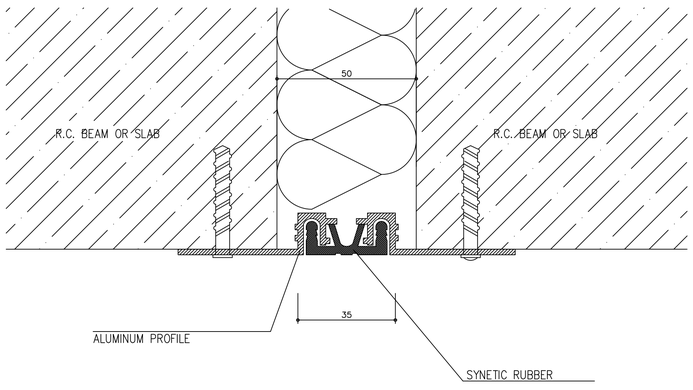
VERTICAL EXPANSION JOINTS
ON THE CONCRETE



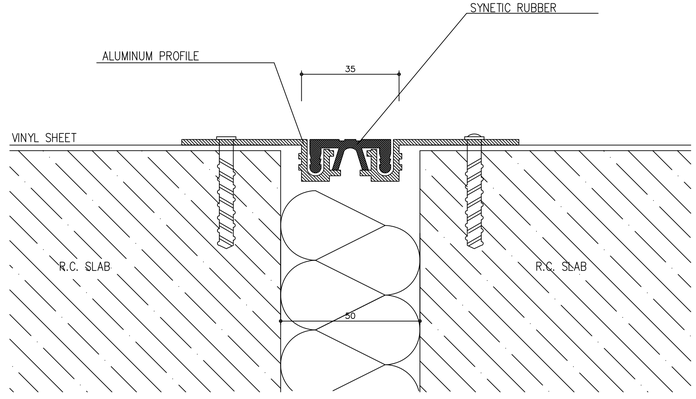
ON THE CMU WALLS (interior)



EXTERIOR WALLS



HORIZONTAL EXPANSION JOINTS
CEILING



FLOOR

EXPANSION JOINT DETAILS
SCALE 1:1

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
	100K DESIGNS	11.16.05	

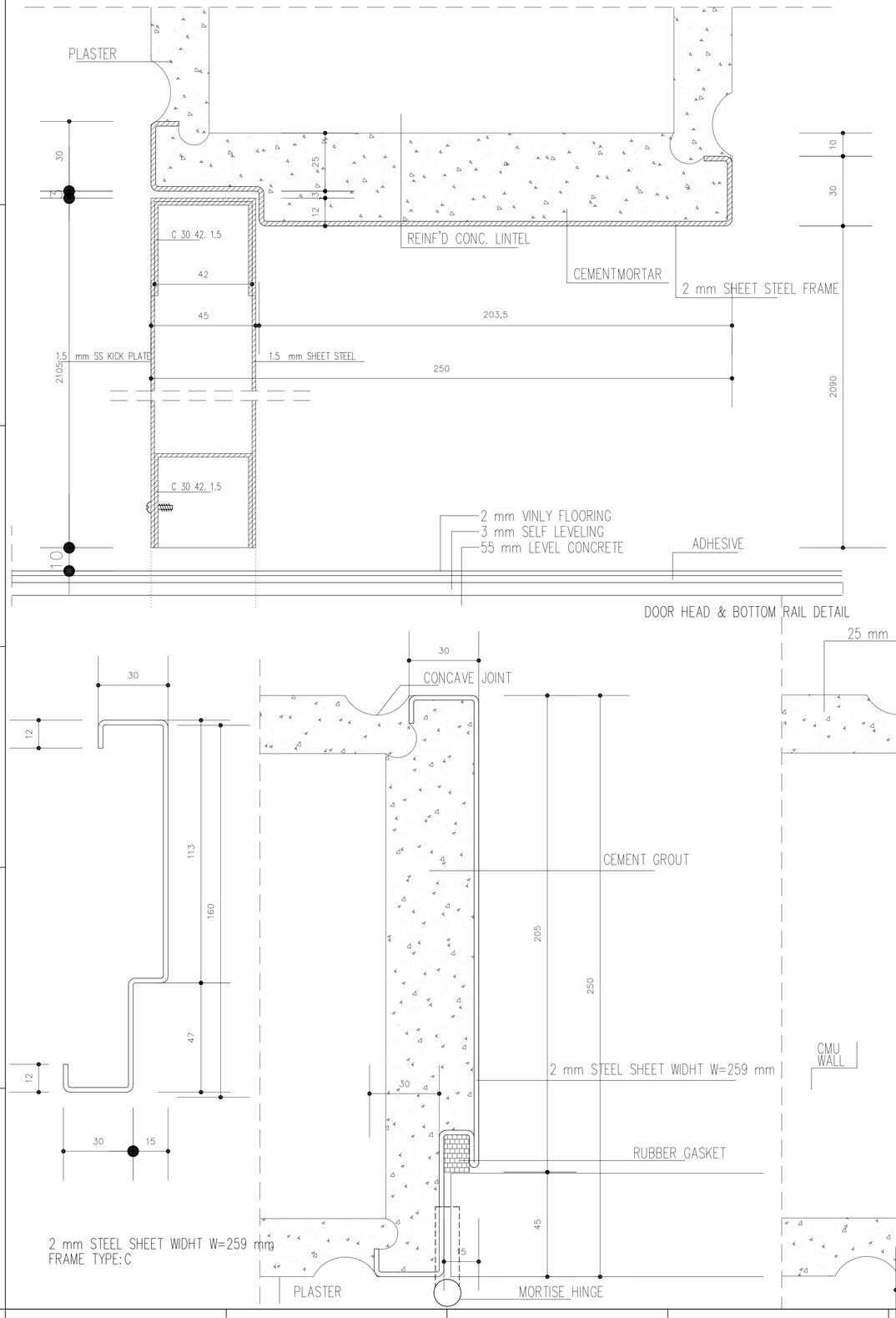
DESIGNED BY : B.IRMAK
DATE : 06.05.2006
DWN BY : B.IRMAK
REVISED BY : IRMAK
CHK BY : G.IRMAK
FILE NO : DP01-HH-A19

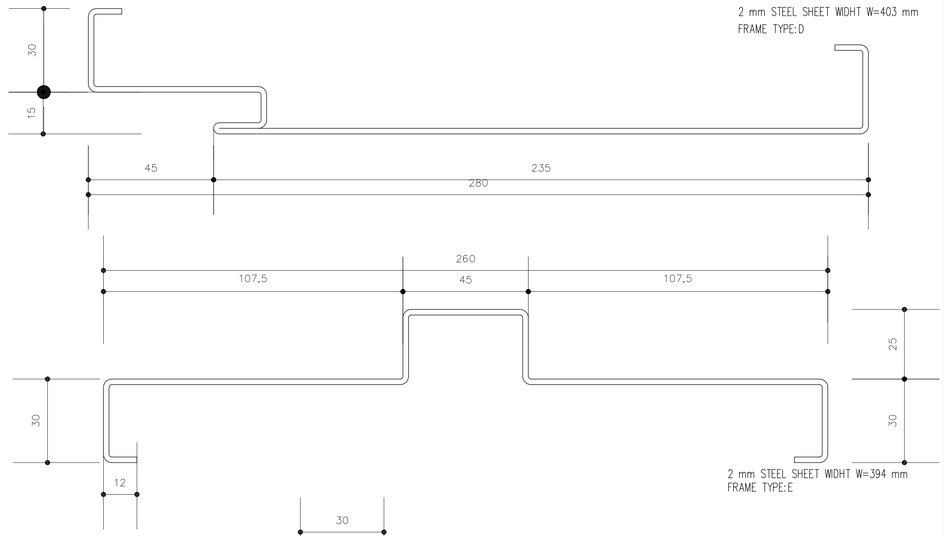
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

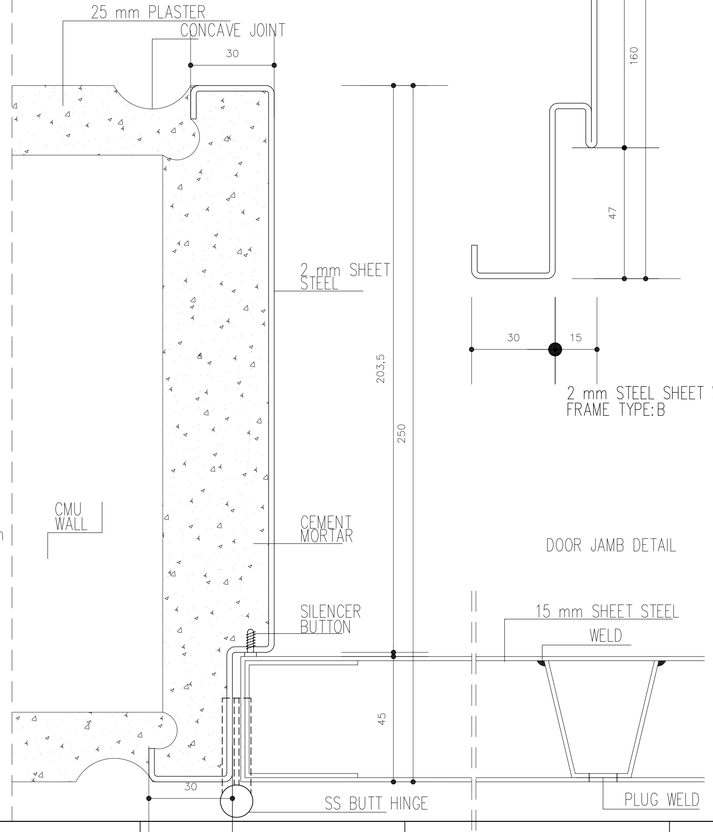
CO.INC in association with
KOLİN
IRMAK, STAND, BESELI, DELTA OM
Design/Builder

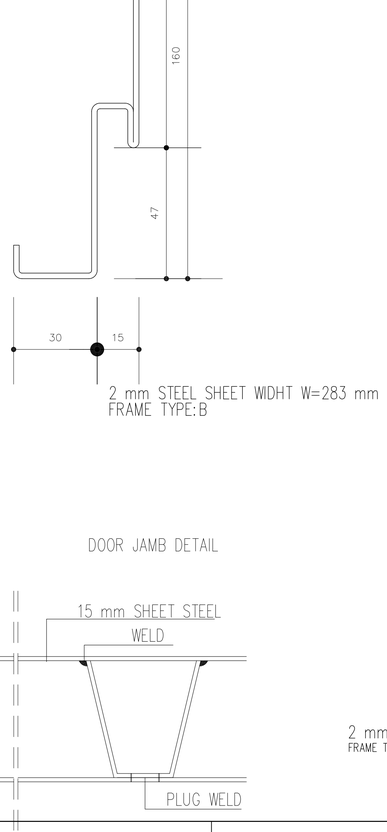
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS-BUILT
EXPANSION JOINT DETAILS

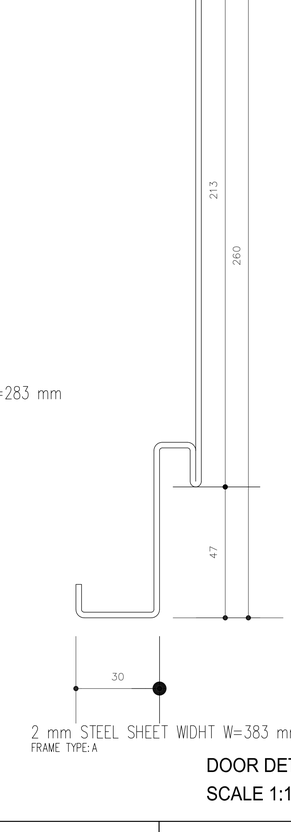
SHEET REFERENCE NUMBER :
DP01-HH-A19











DOOR DETAILS
SCALE 1:1

ASBUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
2	100% DESIGNS	11.16.05	

DESIGNED BY : B.IRMAK
DRAWN BY : B.IRMAK
CHK BY : G.IRMAK
DATE : 06.05.2006
REVISED BY : IRMAK
FILE NO : DP01-HH-A20

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

COINC in association with
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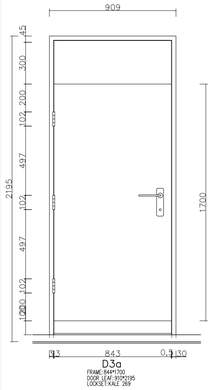
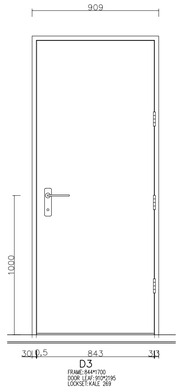
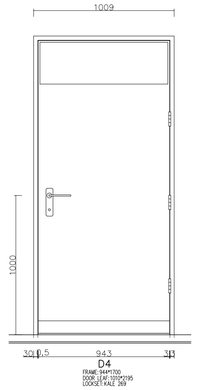
IRMAK, STAND, BESELİ, DELTA DM
Design/Builder

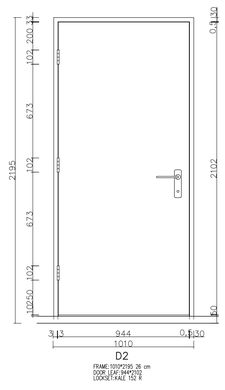
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
DOOR DETAILS

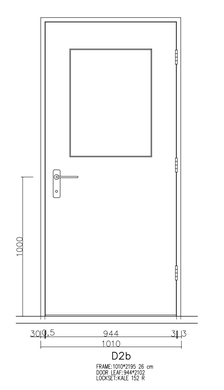
SHEET REFERENCE NUMBER :
DP01-HH-A20

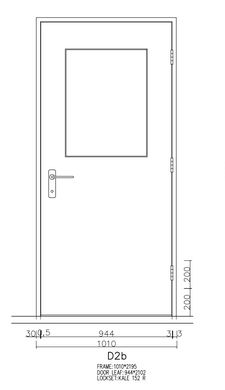


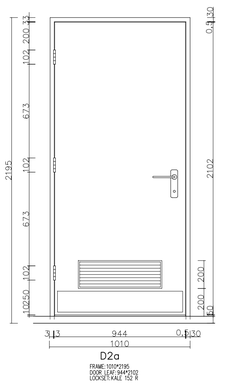


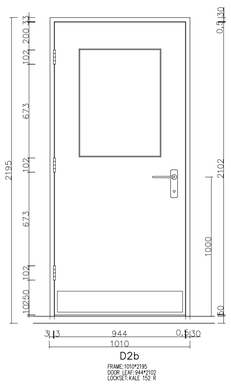


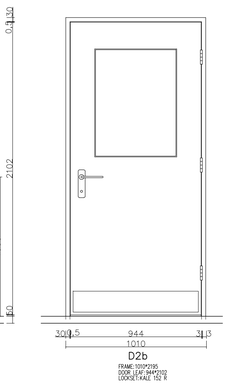


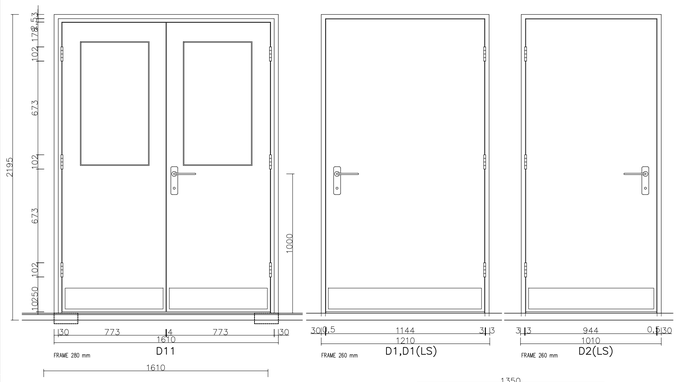


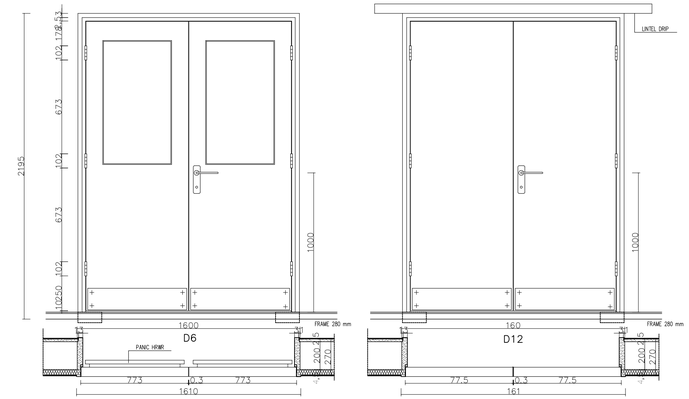


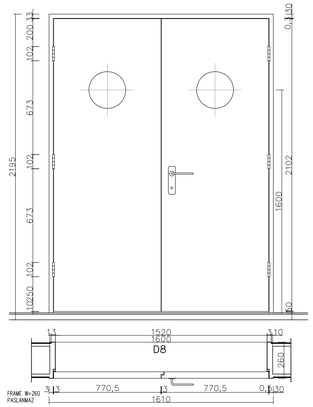


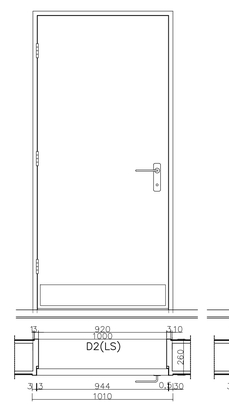


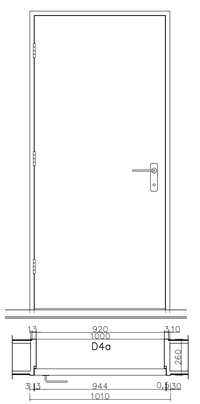


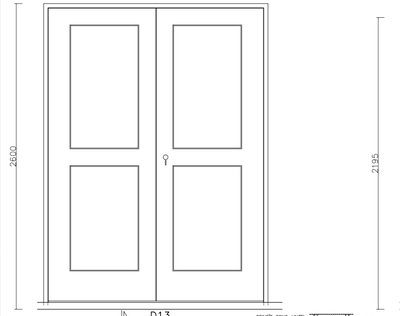


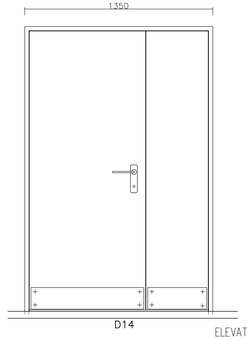


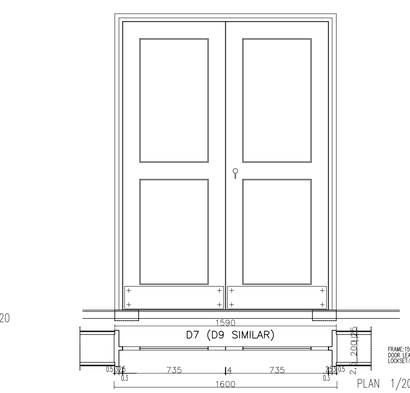


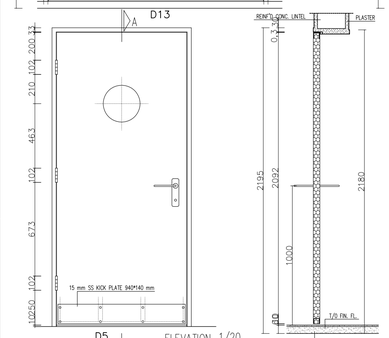


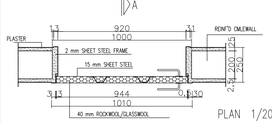




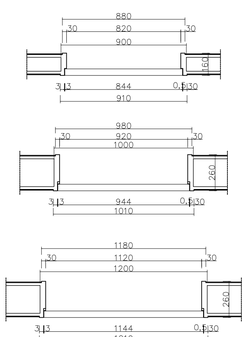


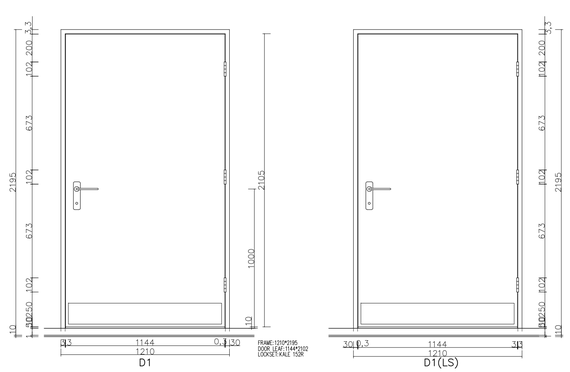






100/220 DOOR DETAIL





DOOR SCHEDULE

LEGEND		DOOR FRAME				DOOR LEAF																	
DOOR TYPE	DIMENSIONS OF OPENING	EACH R	EACH L	DUMMY FRAME	ALUMINUM	PREFORMED SHEET STEEL 2mm	STAINLESS SHEET STEEL	SHEET STEEL	ALUMINUM	STAINLESS STEEL		DOOR LIGHT	HYDRAULIC TYPE DOOR CLOSER (OVER HEAD)	HYDRAULIC TYPE DOOR CLOSER (FLOOR MOUNTED)	KICK PLATE	PUSH PLATE	LOW-E +12 2 X 3 LAMINATED SAFETY	6 mm MIRROR+12+3x3 mm LAMINATED SAFETY INSULATED GLASS	6 mm. WIRED	2x3 mm. LAMINATED SAFETY	DOOR STOP (FLOOR MOUNTED)	DOOR STOP (WALL MOUNTED)	LOUVER 500 X 200	3mm LEAD SHIELDED	PANIC BAR	ROCK WOOL INSULATION	GLASS WOOL INSULATION
D1	1200/2200	9	1			●		●					●		●					●						●
D1(LS)	1200/2200	1				●		●					●		●					●				●		●
D2	1000/2200	28	33			●		●					●		●					●						●
D2(LS)	1000/2200	1	1			●		●					●		●					●				●		●
D2a	1000/2200	1	2			●		●					●		●					●		●				●
D2b	1000/2200	4	2			●		●				●	●		●				●	●						●
D3a	900/2200	5	5			●		●												●						●
D3	900/2200 H=170cm	10	4			●		●														●				
D4	1000/2200 H=170cm	4				●		●														●				
D4a	1000/2200		1			●		●													●					●
D5	1000/2200	1	2				●			●		●	●				●				●					●
D6	1600/2200	2				●		●				●	●		●	●			●		●				●	
D7	1600/2200 double-acting door	6		●	●	●			●			●		●					●		●					● (100/2140)
D8	1600/2200	2					●			●		●	●				●				●					●
D9	2650/2600	3		●	●				●			●		●						●	●					
D11	1600/2200	3				●		●				●	●		●			●			●				●	●	
D12	1600/2200	2				●		●					●		●						●				●	
D13	5400/2600	3		●	●				●			●	●				●	●			●		●		●	
D14	1350/2200	1				●		●					●		●						●					●

DOOR DETAILS
SCALE 1:20

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
	REVISED AS BUILT	06.05.06	
	100% DESIGNS	11.16.05	

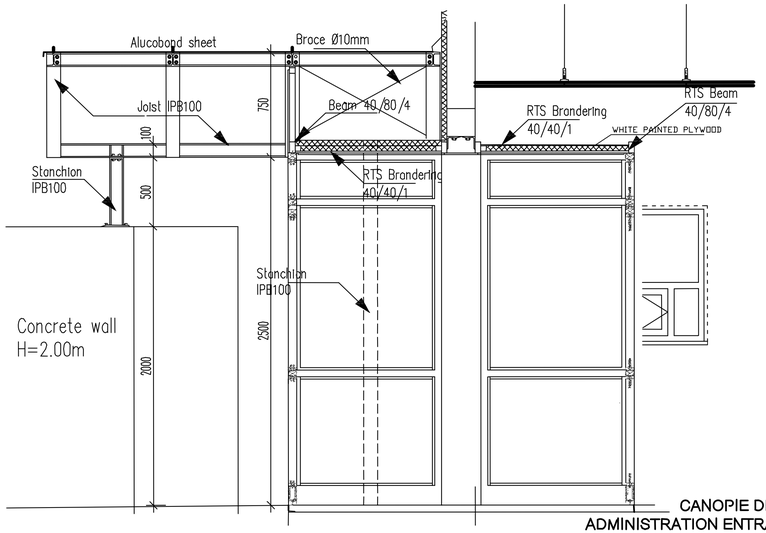
DESIGNED BY : B.IRMAK	DATE : 06.05.2006	FILE NO : DP01-HH-A21
DWN BY : B.IRMAK	REVISED BY : IRMAK	CHK BY : G.IRMAK

US Army Corps of Engineers
Afghanistan Engineer District
KABUL, Afghanistan

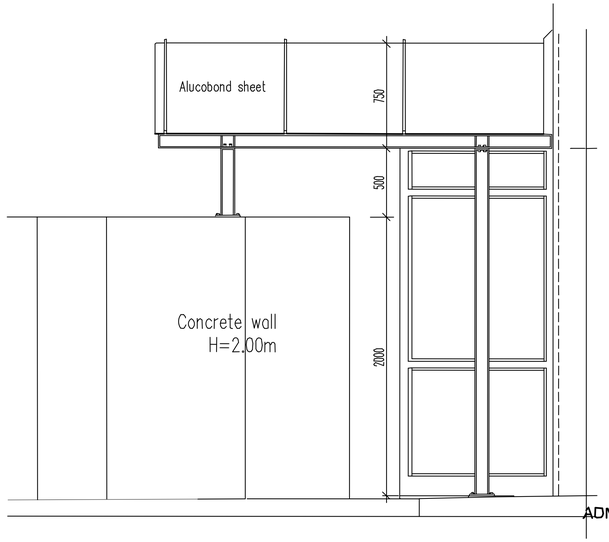
KOLİN
COINC in association with
IRMAK, STAND, BESELI, DELTA DM
Designer/Builder

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
DOOR DETAILS

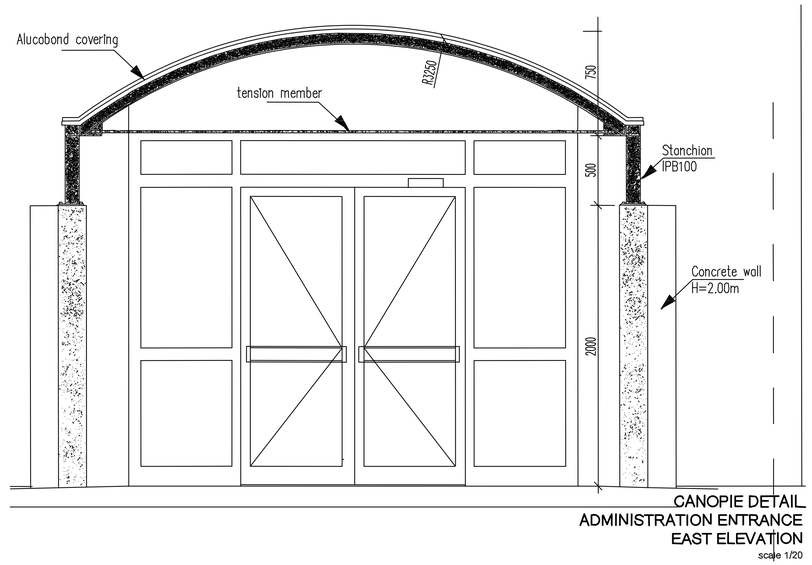
SHEET REFERENCE NUMBER :
DP01-HH-A21



CANOPIE DETAIL
ADMINISTRATION ENTRANCE
SECTION
scale 1/20



CANOPIE DETAIL
ADMINISTRATION ENTRANCE
NORTH ELEVATION
scale 1/20



CANOPIE DETAIL
ADMINISTRATION ENTRANCE
EAST ELEVATION
scale 1/20

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
2	100% DESIGNS	11.16.05	

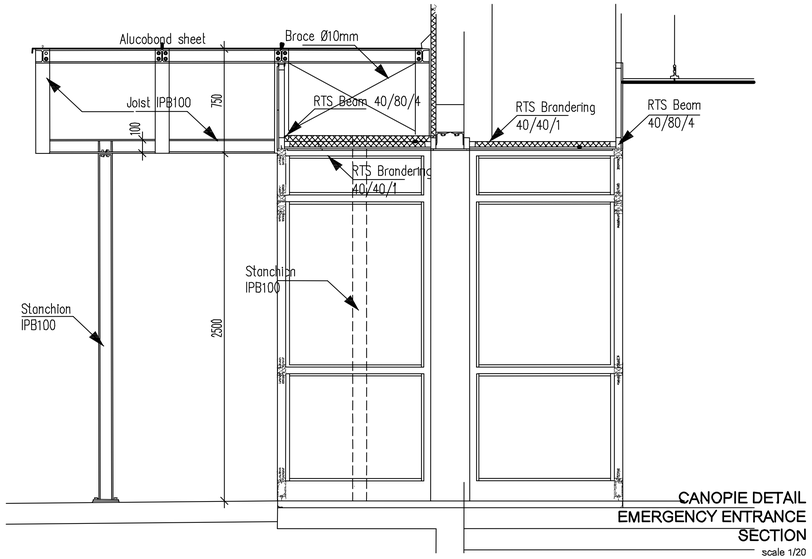
DESIGNED BY : B.IRMAK
DATE : 06.05.2006
DWN BY : B.IRMAK
REVISED BY : IRMAK
CHK BY : G.IRMAK
FILE NO : DP01-HH-A22

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

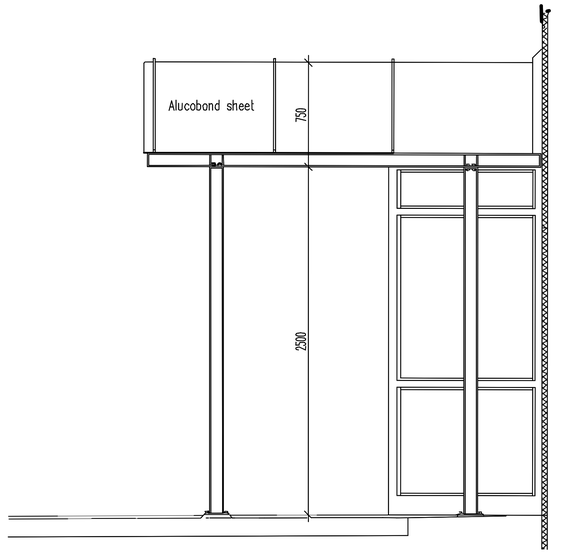
CDINC in association with
KOLİN
IRMAK, STAND, BESELI, DELTA DM
Design/Build

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
CANOPY DETAILS

SHEET REFERENCE NUMBER :
DP01-HH-A22



CANOPIE DETAIL
EMERGENCY ENTRANCE
SECTION
scale 1/20



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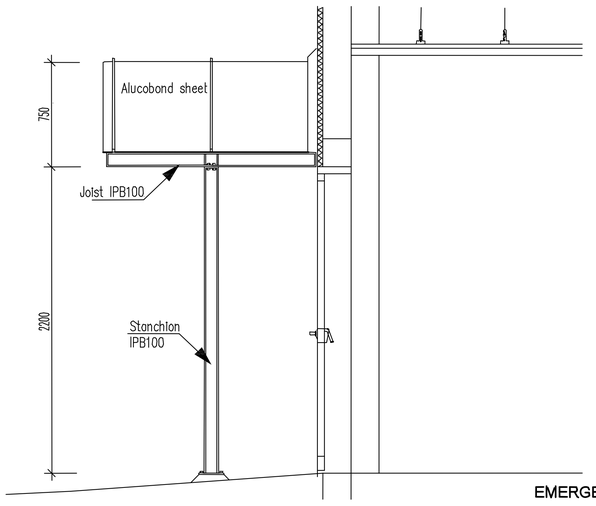
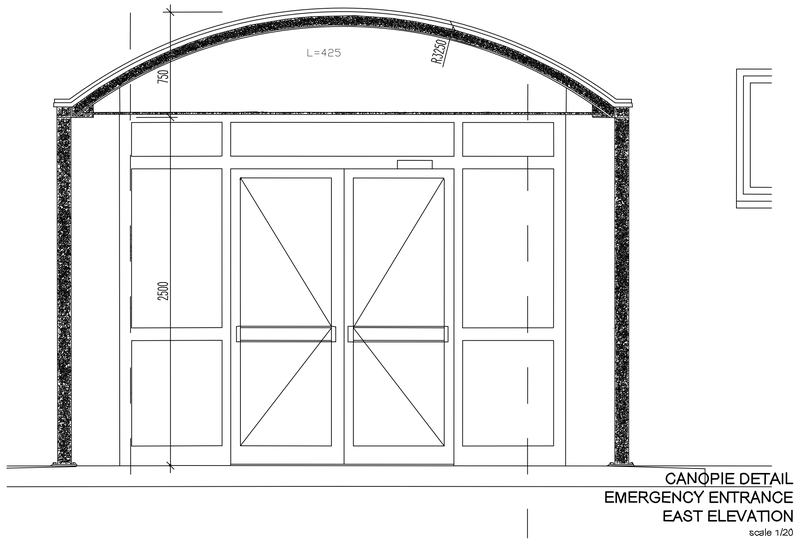
EMERGENCY ENTRANCE
NORTH ELEVATION
scale 1/20



CANOPIE DETAIL
EMERGENCY EXIT SOUTH
EAST ELEVATION
scale 1/20



CANOPIE DETAIL
EMERGENCY ENTRANCE
EAST ELEVATION
scale 1/20

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
2	100% DESIGNS	11.16.05	

DESIGNED BY	DATE :
B.IRMAK	06.05.2006
DWN BY :	REVISED BY :
B.IRMAK	IRMAK
CHK BY :	FILE NO :
G.IRMAK	DP01-HH-A23

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

CO.INC in association with
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IRMAK, STAND, BESELI, DELTA DM
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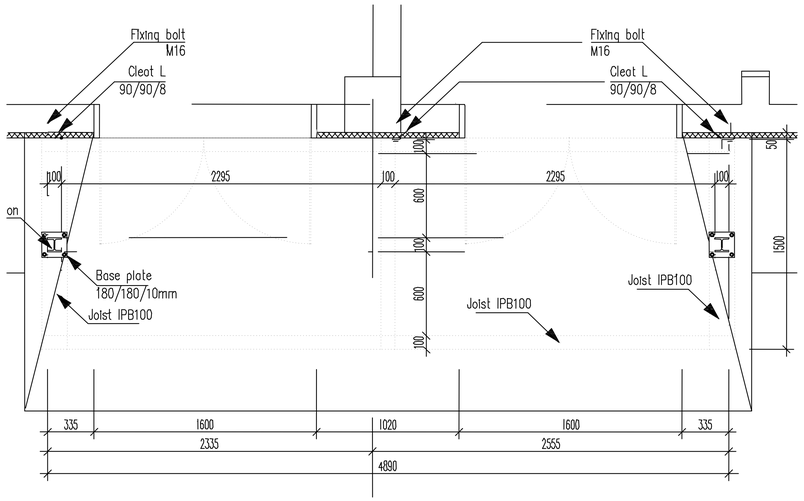
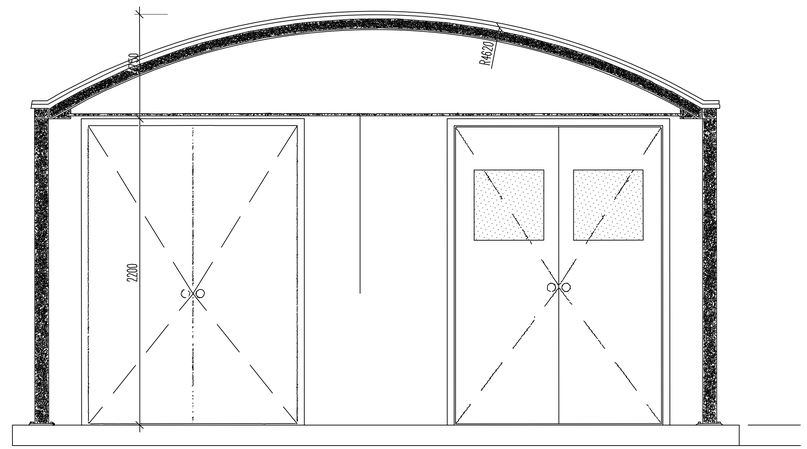
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
CANOPY DETAILS

SHEET REFERENCE NUMBER :

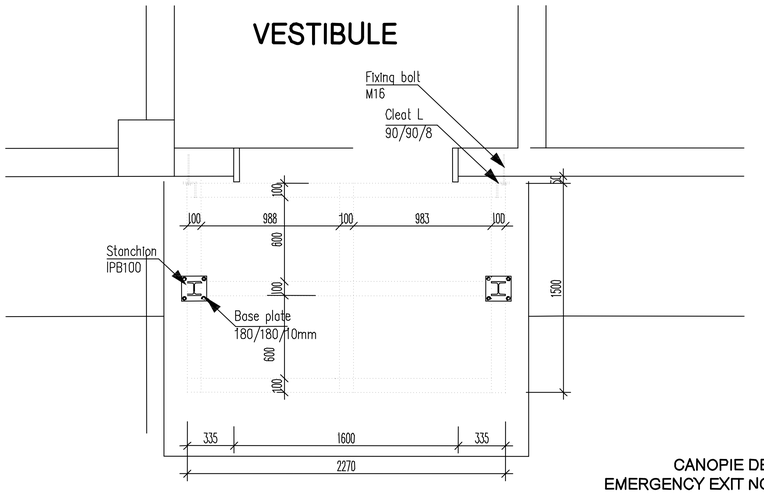
DP01-HH-A23



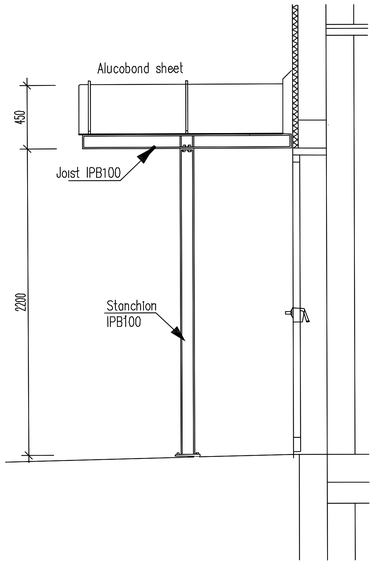
CANOPIE DETAIL
EMERGENCY EXIT SOUTH
PLAN
scale 1/20

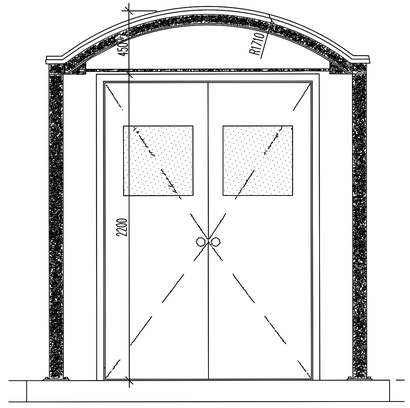


CANOPIE DETAIL
EMERGENCY EXIT SOUTH
SOUTH ELEVATION
scale 1/20



CANOPIE DETAIL
EMERGENCY EXIT NORTH
PLAN
scale 1/20





CANOPIE DETAIL
EMERGENCY EXIT NORTH
WEST & NORTH ELEVATIONS
scale 1/20

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
0	100% DESIGNS	11.16.05	

DESIGNED BY : B.IRMAK
DATE : 06.05.2006
DWN BY : B.IRMAK
REVISED BY : IRMAK
CHK BY : G.IRMAK
FILE NO : DP01-HH-A24

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

CDINC in association with
KOLİN
Designer/Builder

IRMAK, STAND, BESELI, DELTA DM

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS-BUILT
CANOPY DETAILS

SHEET
REFERENCE
NUMBER :

DP01-HH-A24

DESIGN / BUILD

ANA 50 BED REGIONAL HOSPITAL

HERAT, AFGHANISTAN

CONTRACT NUMBER: W91705-C-0010

DESIGN PACKAGE DP01

REGIONAL HOSPITAL

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
	100% DESIGNS	11.16.05	

DESIGNED BY	DATE :
B.IRMAK	06.05.2006
DWN BY :	REVISED BY :
B.IRMAK	IRMAK
CHK BY :	FILE NO :
G.IRMAK	DP01-HH-G1

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
TITLE SHEET

SHEET REFERENCE NUMBER :

DP01-HH-G1

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ARCHITECTURAL

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DP01-HH- G2		09-26-2005	50 BED REGIONAL HOSPITAL INDEX OF DRAWINGS
DP01-HH-A01		09-26-2005	50 BED REGIONAL HOSPITAL SITE GRADING ,LANDSCAPING PLAN & STORMWATER DRAINAGE PLAN
DP01-HH-A01A		09-26-2005	50 BED REGIONAL HOSPITAL SITE GRADING SECTIONS
DP01-HH-A02		09-26-2005	50 BED REGIONAL HOSPITAL FLOOR PLAN
DP01-HH-A03		09-26-2005	50 BED REGIONAL HOSPITAL ELEVATIONS
DP01-HH-A04		09-26-2005	50 BED REGIONAL HOSPITAL SECTIONS
DP01-HH-A05		09-26-2005	50 BED REGIONAL HOSPITAL ROOF PLAN
DP01-HH-A06		09-26-2005	50 BED REGIONAL HOSPITAL REFLECTED CEILING PLAN
DP01-HH-A07		09-26-2005	50 BED REGIONAL HOSPITAL FINISHING SCHEDULE
DP01-HH-A08		09-26-2005	50 BED REGIONAL HOSPITAL FRONT SIDE SYSTEM DETAIL
DP01-HH-A08a		09-26-2005	50 BED REGIONAL HOSPITAL WINDOW DETAILS
DP01-HH-A09		09-26-2005	50 BED REGIONAL HOSPITAL ROOF POINT DETAILS
DP01-HH-A10	(DELETED)	09-26-2005	50 BED REGIONAL HOSPITAL DOOR & WINDOW SCHEDULE
DP01-HH-A11		09-26-2005	50 BED REGIONAL HOSPITAL WC DETAIL
DP01-HH-A12	(DELETED)	09-26-2005	50 BED REGIONAL HOSPITAL CANOPY SYSTEM DETAIL
DP01-HH-A13	(DELETED)	09-26-2005	50 BED REGIONAL HOSPITAL CANOPY SYSTEM DETAIL
DP01-HH-A14	(DELETED)	09-26-2005	50 BED REGIONAL HOSPITAL X-RAY SHIELDING
DP01-HH-A15		09-26-2005	50 BED REGIONAL HOSPITAL LABORATORY COUNTERS SYSTEM DETAIL
DP01-HH-A15a		09-26-2005	50 BED REGIONAL HOSPITAL COUNTERS SYSTEM & POINT DETAIL
DP01-HH-A16		09-26-2005	50 BED REGIONAL HOSPITAL COUNTERS SYSTEM & POINT DETAIL
DP01-HH-A17		09-26-2005	50 BED REGIONAL HOSPITAL COUNTER SECTIONS
DP01-HH-A18		09-26-2005	50 BED REGIONAL HOSPITAL LABORATORY COUNTERS POINT DETAILS
DP01-HH-A19		09-26-2005	50 BED REGIONAL HOSPITAL EXPANSION JOINT DETAILS
DP01-HH-A20		09-26-2005	50 BED REGIONAL HOSPITAL DOOR DETAILS
DP01-HH-A21		09-26-2005	50 BED REGIONAL HOSPITAL DOOR DETAILS
DP01-HH-A22		09-26-2005	50 BED REGIONAL HOSPITAL CANOPY DETAILS
DP01-HH-A23		09-26-2005	50 BED REGIONAL HOSPITAL CANOPY DETAILS
DP01-HH-A24		09-26-2005	50 BED REGIONAL HOSPITAL CANOPY DETAILS

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DP01-HH-S01		09-26-2005	50 BED REGIONAL HOSPITAL FOUNDATION PLAN
DP01-HH-S02		09-26-2005	50 BED REGIONAL HOSPITAL ROOF PLAN
DP01-HH-S03		09-26-2005	50 BED REGIONAL HOSPITAL SECTIONS, MEDICAL GAS ROOM, EMERGENCY EXITS
DP01-HH-S04		09-26-2005	50 BED REGIONAL HOSPITAL FOUNDATION BEAM DETAILS
DP01-HH-S05		09-26-2005	50 BED REGIONAL HOSPITAL SINGLE FOOTING DETAILS
DP01-HH-S06		09-26-2005	50 BED REGIONAL HOSPITAL COLUMN DETAILS
DP01-HH-S07		09-26-2005	50 BED REGIONAL HOSPITAL BEAM DETAILS - 1
DP01-HH-S08		09-26-2005	50 BED REGIONAL HOSPITAL BEAM DETAILS - 2
DP01-HH-S09		09-26-2005	50 BED REGIONAL HOSPITAL ROOF SLAB REINFORCEMENT PLAN
DP01-HH-S10		09-26-2005	50 BED REGIONAL HOSPITAL SLAB ON GRADE PLAN, SLAB AND WALL DETAILS

MECHANICAL

SHT. REF. NO	REVISIONS REV.	REVISIONS ISSUE DATE	DRAWING TITLE
DP01-HH-P00		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE WATER AND DRAINAGE SYSTEM (PLUMPING SYSTEM) SITE PLAN
DP01-HH-P01		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER -DRAINAGE SYSTEM (PLUMPING SYSTEM) ROOF PLAN
DP01-HH-P02		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER SYSTEM FLOOR PLAN
DP01-HH-P03		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER SYSTEM DETAIL DRAWINGS
DP01-HH-P04		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER SYSTEM RISER DIAGRAM
DP01-HH-P05		09-26-2005	50 BED REGIONAL HOSPITAL DRAINAGE SYSTEM RISER DIAGRAM
DP01-HH-P06		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER-DRAINAGE SYSTEM, MECHANICAL ROOM DETAIL, SYSTEM DIAGRAM AND EQUIPMENT LIST
DP01-HH-P07		09-26-2005	50 BED REGIONAL HOSPITAL DRAINAGE SYSTEM FLOOR PLAN
DP01-HH-P08		09-26-2005	50 BED REGIONAL HOSPITAL DRAINAGE SYSTEM DETAIL DRAWINGS
DP01-HH-M01		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM ROOF PLAN
DP01-HH-M02		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM FLOOR PLAN
DP01-HH-M03		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM ISOMETRIC DIAGRAM
DP01-HH-M04		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM RISER DIAGRAM&EQUIPMENT LIST
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DP01-HH-G01		09-26-2005	50 BED REGIONAL HOSPITAL OXYGEN SYSTEM FLOOR PLAN

ELECTRICAL

SHT. REF. NO	REVISIONS REV.	REVISIONS ISSUE DATE	DRAWING TITLE
DP01-HH-E00		09-26-2005	50 BED REGIONAL HOSPITAL DRAWING LIST
DP01-HH-E01		09-26-2005	50 BED REGIONAL HOSPITAL OUTDOOR LIGHTING PLAN
DP01-HH-E02		09-26-2005	50 BED REGIONAL HOSPITAL GROUNDING AND LIGHTNING PROTECTION PLAN
DP01-HH-E03		09-26-2005	50 BED REGIONAL HOSPITAL LIGHTING SYSTEM PLAN
DP01-HH-E04		09-26-2005	50 BED REGIONAL HOSPITAL RECEPTACLE SYSTEM PLAN
DP01-HH-E05		09-26-2005	50 BED REGIONAL HOSPITAL TELEPHONE - TV - DATA SYSTEM PLAN
DP01-HH-E06		09-26-2005	50 BED REGIONAL HOSPITAL ROOF FLOOR POWER PLAN
DP01-HH-E07		09-26-2005	50 BED REGIONAL HOSPITAL NURSE CALL SYSTEM PLAN
DP01-HH-E08		09-26-2005	50 BED REGIONAL HOSPITAL PVC PIPES FLOOR DISTRIBUTION PLAN
DP01-HH-E09		09-26-2005	50 BED REGIONAL HOSPITAL FIRE ALARM SYSTEM PLAN
DP01-HH-E10		09-26-2005	50 BED REGIONAL HOSPITAL PUBLIC ADREES & MASS NOTIFICATION SYSTEM PLAN
DP01-HH-E11		09-26-2005	50 BED REGIONAL HOSPITAL POWER SYSTEM PLAN
DP01-HH-E12		09-26-2005	50 BED REGIONAL HOSPITAL PUBLIC ADRESS & MASS NOTIFICATION SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E13		09-26-2005	50 BED REGIONAL HOSPITAL PANEL BOARD SCHEDULE - 1
DP01-HH-E14		09-26-2005	50 BED REGIONAL HOSPITAL PANEL BOARD SCHEDULE - 2
DP01-HH-E15		09-26-2005	50 BED REGIONAL HOSPITAL POWER SINGLE LINE DIAGRAM
DP01-HH-E16		09-26-2005	50 BED REGIONAL HOSPITAL TELEPHONE - TV - DATA SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E17		09-26-2005	50 BED REGIONAL HOSPITAL FIRE ALARM SYSTEM SINGLE LINE DIAGRAM
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DP01-HH-E20		09-26-2005	50 BED REGIONAL HOSPITAL MCC SCHEDULES
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DP01-HH-E24		09-26-2005	50 BED REGIONAL HOSPITAL DUCT TYPE ALARM SENSORS CONNECTION DIAGRAM
DP01-HH-E25		09-26-2005	50 BED REGIONAL HOSPITAL SYMBOLS LIST

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT 100% DESIGNS	06.05.06 11:16:05	

DESIGNED BY : B.IRMAK | DATE : 06.05.2006
DWN BY : B.IRMAK | REVISED BY : IRMAK
CHK BY : G.IRMAK | FILE NO : DP01-HH-G2

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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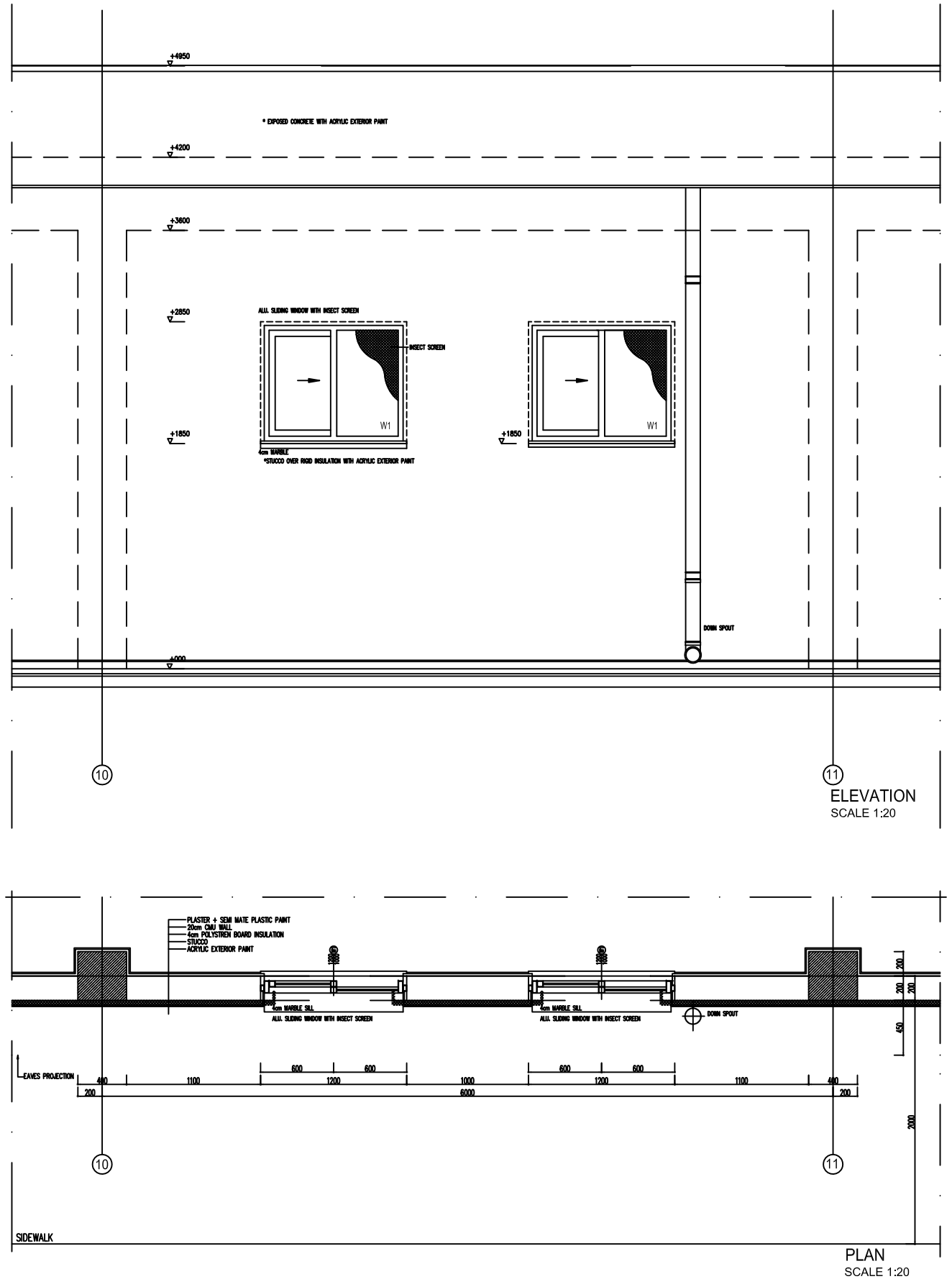
Design/Builder
IRMAK, STAND, BESELI, DELTA OM

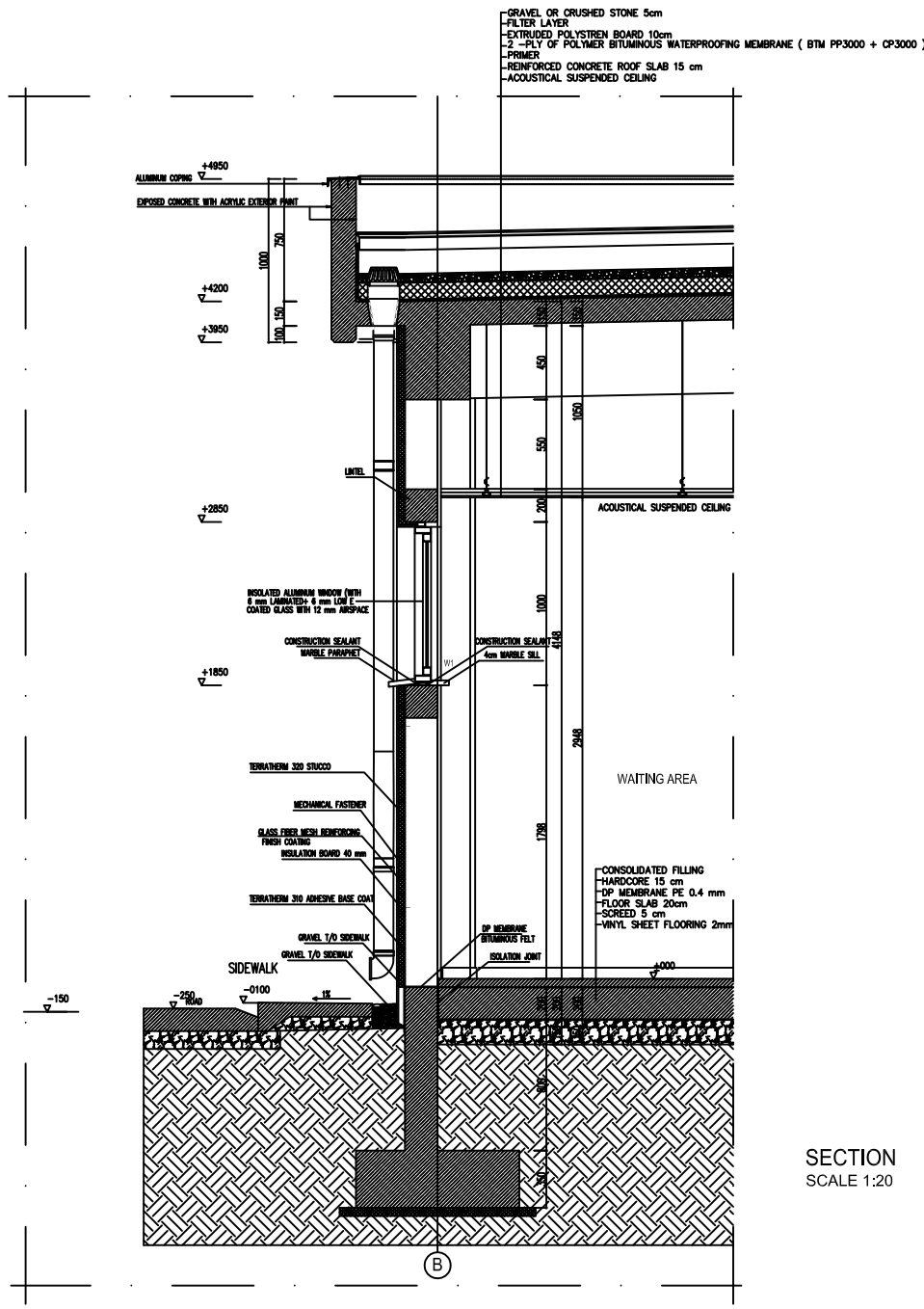
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
INDEX OF DRAWINGS

SHEET REFERENCE NUMBER :
DP01-HH-G2



ELEVATION
SCALE 1:20

PLAN
SCALE 1:20



SECTION
SCALE 1:20

FRONT SIDE SYSTEM DETAIL

AS BUILT

APR.	DATE	DESCRIPTION
	06.05.06	REVISED AS BUILT
	11.16.05	100E DESIGNS
SYMBOL		

DESIGNED BY : B.IRMAK
DRN BY : B.IRMAK
CHK BY : G.IRMAK
DATE : 06.05.2006
REVISED BY : IRMAK
FILE NO : DP01-HH-A08

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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DESIGN/BUILD
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HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
FRONT SIDE SYSTEM DETAIL

SHEET REFERENCE NUMBER :
DP01-HH-A08

DESIGN / BUILD

ANA 50 BED REGIONAL HOSPITAL

HERAT, AFGHANISTAN

CONTRACT NUMBER: W91705-C-0010

DESIGN PACKAGE DP01

REGIONAL HOSPITAL

AS BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS BUILT	06.05.06	
2	100% DESIGNS	11.16.05	

DESIGNED BY B.IRMAK	DWN BY : B.IRMAK	CHK BY : G.IRMAK	DATE : 06.05.2006
			REVISED BY : IRMAK
			FILE NO : DP01-HH-G1

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
TITLE SHEET

SHEET REFERENCE NUMBER :

DP01-HH-G1

INDEX OF DRAWINGS

ARCHITECTURAL

SHT. REF. NO	REVISIONS REV.	REVISIONS ISSUE DATE	DRAWING TITLE
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DP01-HH-A01A		09-26-2005	50 BED REGIONAL HOSPITAL SITE GRADING SECTIONS
DP01-HH-A02		09-26-2005	50 BED REGIONAL HOSPITAL FLOOR PLAN
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DP01-HH-A09		09-26-2005	50 BED REGIONAL HOSPITAL ROOF POINT DETAILS
DP01-HH-A10		09-26-2005	(DELETED) 50 BED REGIONAL HOSPITAL DOOR & WINDOW SCHEDULE
DP01-HH-A11		09-26-2005	50 BED REGIONAL HOSPITAL WC DETAIL
DP01-HH-A12		09-26-2005	(DELETED) 50 BED REGIONAL HOSPITAL CANOPY SYSTEM DETAIL
DP01-HH-A13		09-26-2005	(DELETED) 50 BED REGIONAL HOSPITAL CANOPY SYSTEM DETAIL
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DP01-HH-A19		09-26-2005	50 BED REGIONAL HOSPITAL EXPANSION JOINT DETAILS
DP01-HH-A20		09-26-2005	50 BED REGIONAL HOSPITAL DOOR DETAILS
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DP01-HH-A22		09-26-2005	50 BED REGIONAL HOSPITAL CANOPY DETAILS
DP01-HH-A23		09-26-2005	50 BED REGIONAL HOSPITAL CANOPY DETAILS
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DP01-HH-S05		09-26-2005	50 BED REGIONAL HOSPITAL SINGLE FOOTING DETAILS
DP01-HH-S06		09-26-2005	50 BED REGIONAL HOSPITAL COLUMN DETAILS
DP01-HH-S07		09-26-2005	50 BED REGIONAL HOSPITAL BEAM DETAILS - 1
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DP01-HH-S09		09-26-2005	50 BED REGIONAL HOSPITAL ROOF SLAB REINFORCEMENT PLAN
DP01-HH-S10		09-26-2005	50 BED REGIONAL HOSPITAL SLAB ON GRADE PLAN, SLAB AND WALL DETAILS

MECHANICAL

SHT. REF. NO	REVISIONS REV.	REVISIONS ISSUE DATE	DRAWING TITLE
DP01-HH-P00		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE WATER AND DRAINAGE SYSTEM (PLUMPING SYSTEM) SITE PLAN
DP01-HH-P01		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER -DRAINAGE SYSTEM (PLUMPING SYSTEM) ROOF PLAN
DP01-HH-P02		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER SYSTEM FLOOR PLAN
DP01-HH-P03		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER SYSTEM DETAIL DRAWINGS
DP01-HH-P04		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER SYSTEM RISER DIAGRAM
DP01-HH-P05		09-26-2005	50 BED REGIONAL HOSPITAL DRAINAGE SYSTEM RISER DIAGRAM
DP01-HH-P06		09-26-2005	50 BED REGIONAL HOSPITAL POTABLE COLD&HOT WATER-DRAINAGE SYSTEM, MECHANICAL ROOM DETAIL, SYSTEM DIAGRAM AND EQUIPMENT LIST
DP01-HH-P07		09-26-2005	50 BED REGIONAL HOSPITAL DRAINAGE SYSTEM FLOOR PLAN
DP01-HH-P08		09-26-2005	50 BED REGIONAL HOSPITAL DRAINAGE SYSTEM DETAIL DRAWINGS
DP01-HH-M01		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM ROOF PLAN
DP01-HH-M02		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM FLOOR PLAN
DP01-HH-M03		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM ISOMETRIC DIAGRAM
DP01-HH-M04		09-26-2005	50 BED REGIONAL HOSPITAL HVAC SYSTEM RISER DIAGRAM&EQUIPMENT LIST
DP01-HH-M05		09-26-2005	50 BED REGIONAL HOSPITAL AUTOMATIC CONTROL
DP01-HH-F01		09-26-2005	50 BED REGIONAL HOSPITAL FIRE FIGHTING SYSTEM FLOOR PLAN
DP01-HH-F02		09-26-2005	50 BED REGIONAL HOSPITAL FIRE FIGHTING SYSTEM RISER DIAGRAM
DP01-HH-G01		09-26-2005	50 BED REGIONAL HOSPITAL OXYGEN SYSTEM FLOOR PLAN

ELECTRICAL

SHT. REF. NO	REVISIONS REV.	REVISIONS ISSUE DATE	DRAWING TITLE
DP01-HH-E00		09-26-2005	50 BED REGIONAL HOSPITAL DRAWING LIST
DP01-HH-E01		09-26-2005	50 BED REGIONAL HOSPITAL OUTDOOR LIGHTING PLAN
DP01-HH-E02		09-26-2005	50 BED REGIONAL HOSPITAL GROUNDING AND LIGHTNING PROTECTION PLAN
DP01-HH-E03		09-26-2005	50 BED REGIONAL HOSPITAL LIGHTING SYSTEM PLAN
DP01-HH-E04		09-26-2005	50 BED REGIONAL HOSPITAL RECEPTACLE SYSTEM PLAN
DP01-HH-E05		09-26-2005	50 BED REGIONAL HOSPITAL TELEPHONE - TV - DATA SYSTEM PLAN
DP01-HH-E06		09-26-2005	50 BED REGIONAL HOSPITAL ROOF FLOOR POWER PLAN
DP01-HH-E07		09-26-2005	50 BED REGIONAL HOSPITAL NURSE CALL SYSTEM PLAN
DP01-HH-E08		09-26-2005	50 BED REGIONAL HOSPITAL PVC PIPES FLOOR DISTRIBUTION PLAN
DP01-HH-E09		09-26-2005	50 BED REGIONAL HOSPITAL FIRE ALARM SYSTEM PLAN
DP01-HH-E10		09-26-2005	50 BED REGIONAL HOSPITAL PUBLIC ADREES & MASS NOTIFICATION SYSTEM PLAN
DP01-HH-E11		09-26-2005	50 BED REGIONAL HOSPITAL POWER SYSTEM PLAN
DP01-HH-E12		09-26-2005	50 BED REGIONAL HOSPITAL PUBLIC ADRESS & MASS NOTIFICATION SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E13		09-26-2005	50 BED REGIONAL HOSPITAL PANEL BOARD SCHEDULE - 1
DP01-HH-E14		09-26-2005	50 BED REGIONAL HOSPITAL PANEL BOARD SCHEDULE - 2
DP01-HH-E15		09-26-2005	50 BED REGIONAL HOSPITAL POWER SINGLE LINE DIAGRAM
DP01-HH-E16		09-26-2005	50 BED REGIONAL HOSPITAL TELEPHONE - TV - DATA SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E17		09-26-2005	50 BED REGIONAL HOSPITAL FIRE ALARM SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E18		09-26-2005	50 BED REGIONAL HOSPITAL NURSE CALL SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E19		09-26-2005	50 BED REGIONAL HOSPITAL JUNTIONBOX SYSTEM AND CABLE TRAY PLAN
DP01-HH-E20		09-26-2005	50 BED REGIONAL HOSPITAL MCC SCHEDULES
DP01-HH-E21		09-26-2005	50 BED REGIONAL HOSPITAL DETAILS - 1
DP01-HH-E22		09-26-2005	50 BED REGIONAL HOSPITAL DETAILS - 2
DP01-HH-E23		09-26-2005	50 BED REGIONAL HOSPITAL DETAILS - 3
DP01-HH-E24		09-26-2005	50 BED REGIONAL HOSPITAL DUCT TYPE ALARM SENSORS CONNECTION DIAGRAM
DP01-HH-E25		09-26-2005	50 BED REGIONAL HOSPITAL SYMBOLS LIST

AS BUILT

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

DESIGNED BY : B.IRMAK
DATE : 06.05.2006
DRAWN BY : B.IRMAK
REVISED BY : IRMAK
CHK BY : G.IRMAK
FILE NO : DP01-HH-G2

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
INDEX OF DRAWINGS

SHEET REFERENCE NUMBER :
DP01-HH-G2

DESIGN/BUILD
50 BED REGIONAL HOSPITAL

HERAT , AFGHANISTAN

DRAWING LIST

DP01-HH-E00	DRAWING LIST
DP01-HH-E01	OUTDOOR LIGHTING PLAN
DP01-HH-E02	GROUNDING AND LIGHTNING PROTECTION PLAN
DP01-HH-E03	LIGHTING SYSTEM PLAN
DP01-HH-E04	RECEPTACLE SYSTEM PLAN
DP01-HH-E05	TELEPHONE – TV – DATA SYSTEM PLAN
DP01-HH-E06	ROOF LEVEL POWER PLAN
DP01-HH-E07	NURSE CALL SYSTEM PLAN
DP01-HH-E08	PVC PIPES FLOOR DISTRIBUTION PLAN
DP01-HH-E09	FIRE ALARM SYSTEM PLAN
DP01-HH-E10	PUBLIC ADDRESS & MASS NOTIFICATION SYSTEM PLAN
DP01-HH-E11	POWER SYSTEM PLAN
DP01-HH-E12	PUBLIC ADDRESS & MASS NOTIFICATION SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E13	PANEL BOARD SCHEDULE – 1
DP01-HH-E14	PANEL BOARD SCHEDULE – 2
DP01-HH-E15	POWER SINGLE LINE DIAGRAM
DP01-HH-E16	TELEPHONE – TV – DATA SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E17	FIRE ALARM SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E18	NURSE CALL SYSTEM SINGLE LINE DIAGRAM
DP01-HH-E19	JUNCTION BOX SYSTEM AND CABLE TRAY PLAN
DP01-HH-E20	MCC SCHEDULES
DP01-HH-E21	DETAILS – 1
DP01-HH-E22	DETAILS – 2
DP01-HH-E23	DETAILS – 3
DP01-HH-E24	DUCT TYPE FIRE ALARM SENSOR CONNECTION DIAGRAM
DP01-HH-E25	SYMBOLS LIST

AS-BUILT

SYMBOL	DESCRIPTION	DATE	APR.
1	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

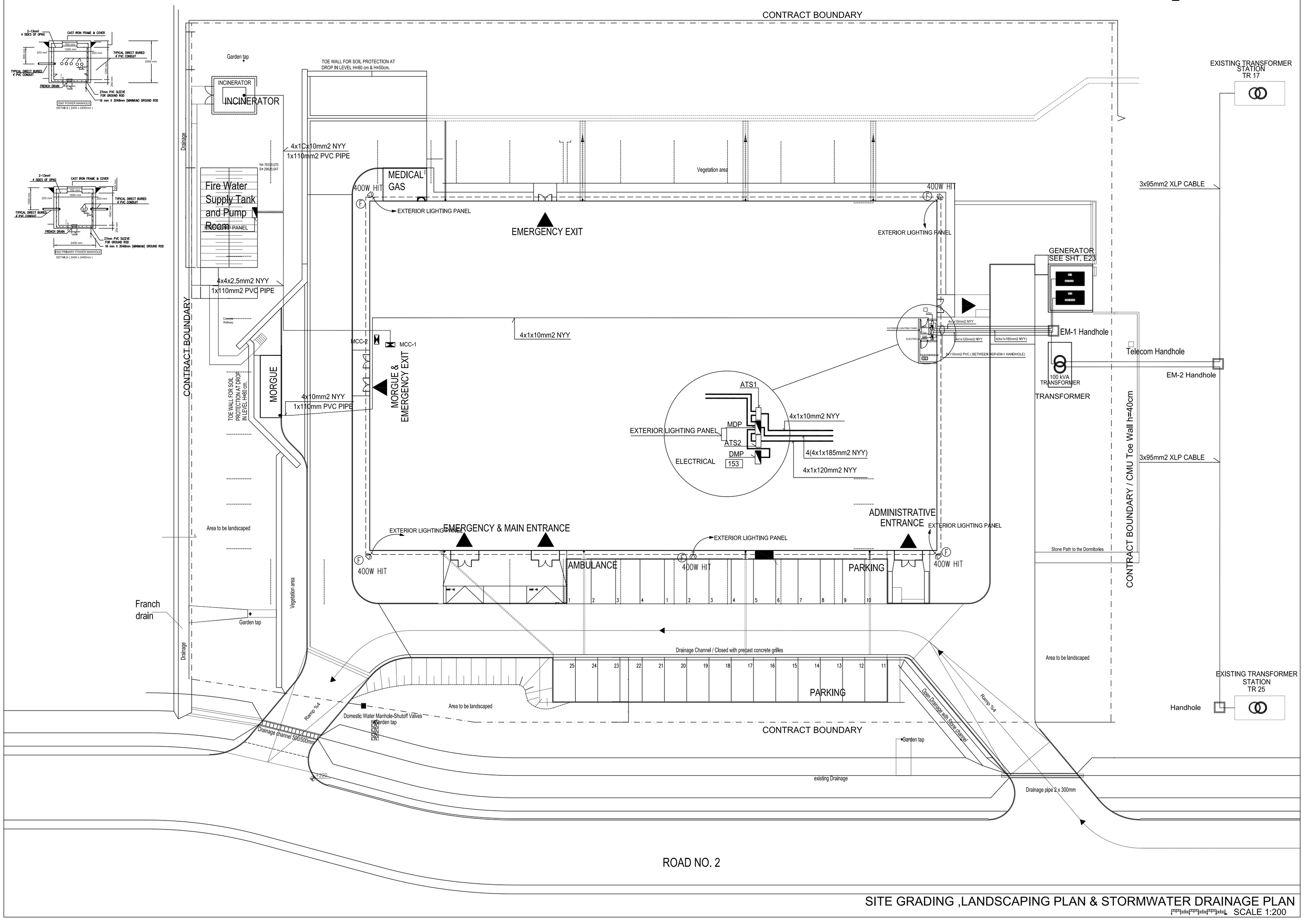
DESIGNED BY : E. Benli
DATE : 26-11-2005
DWN BY : U. PENEKLI
SUBMITTED BY : DELTA OM
CHK BY : A. LOK
FILE NO : DP01-HH - E00

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
DRAWING LIST

SHEET REFERENCE NUMBER :
DP01-HH-E00



SITE GRADING ,LANDSCAPING PLAN & STORMWATER DRAINAGE PLAN

SCALE 1:200

AS-BUILT

SYMBOL	DESCRIPTION	DATE	APR.
4	REVISED AS-BUILT 100% DESIGNS	25-JUNE-2006 11:16:05	

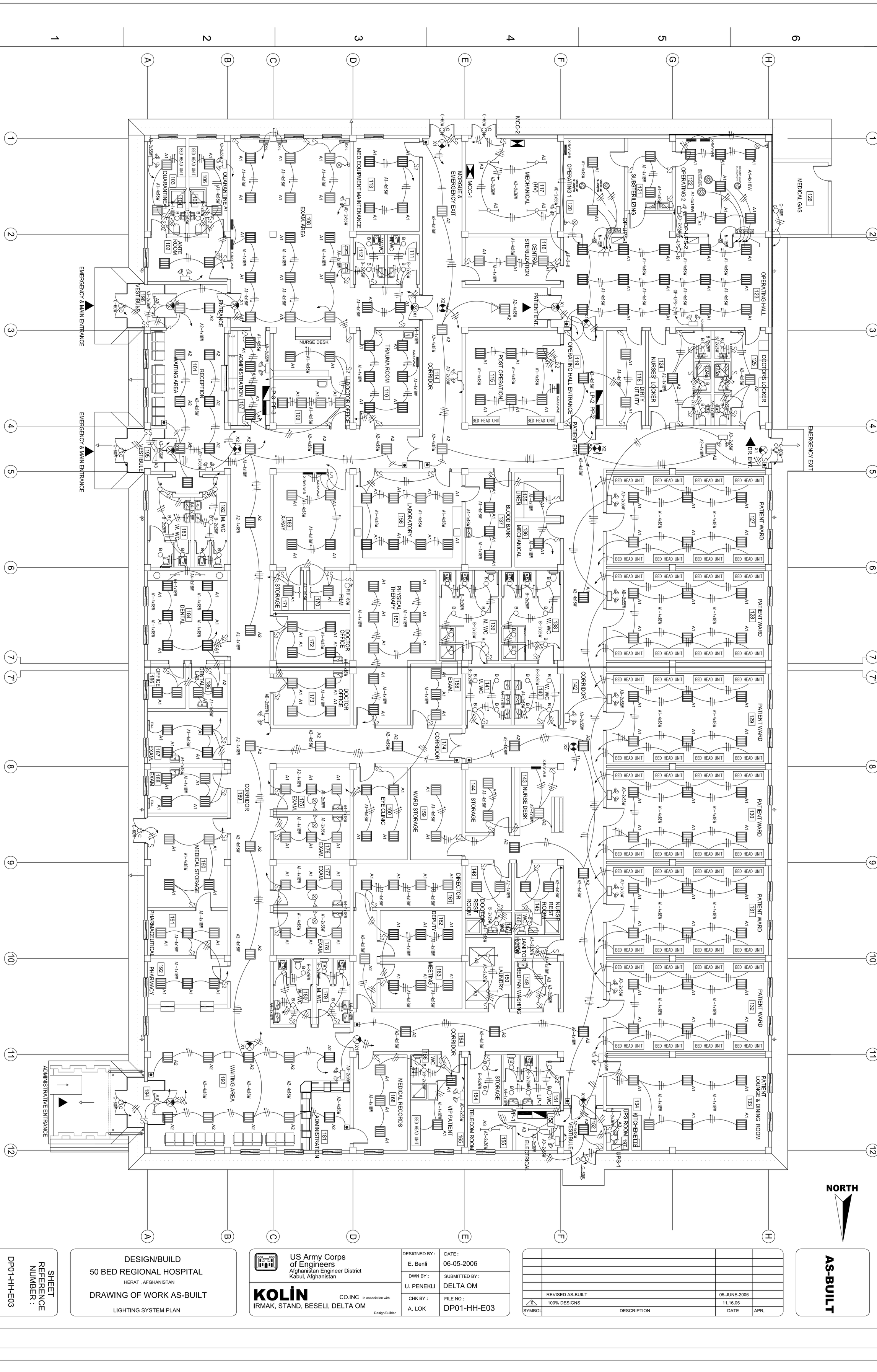
DESIGNED BY : E. Benli
DATE : 06-05-2006
DWN BY : U. PENEKLI
SUBMITTED BY : DELTA JM
CHK BY : A. LDK
FILE NO : DP01-HH - E01

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

KOLIN CDINC in association with IRMAK, STAND, BESELI, DELTA JM
Design/Build

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
OUTDOOR LIGHTING PLAN

SHEET REFERENCE NUMBER :
DP01-HH-E01



SHEET REFERENCE NUMBER : DP01-HH-E03

DESIGN/BUILD

50 BED REGIONAL HOSPITAL

HERAT , AFGHANISTAN

DRAWING OF WORK AS-BUILT

LIGHTING SYSTEM PLAN

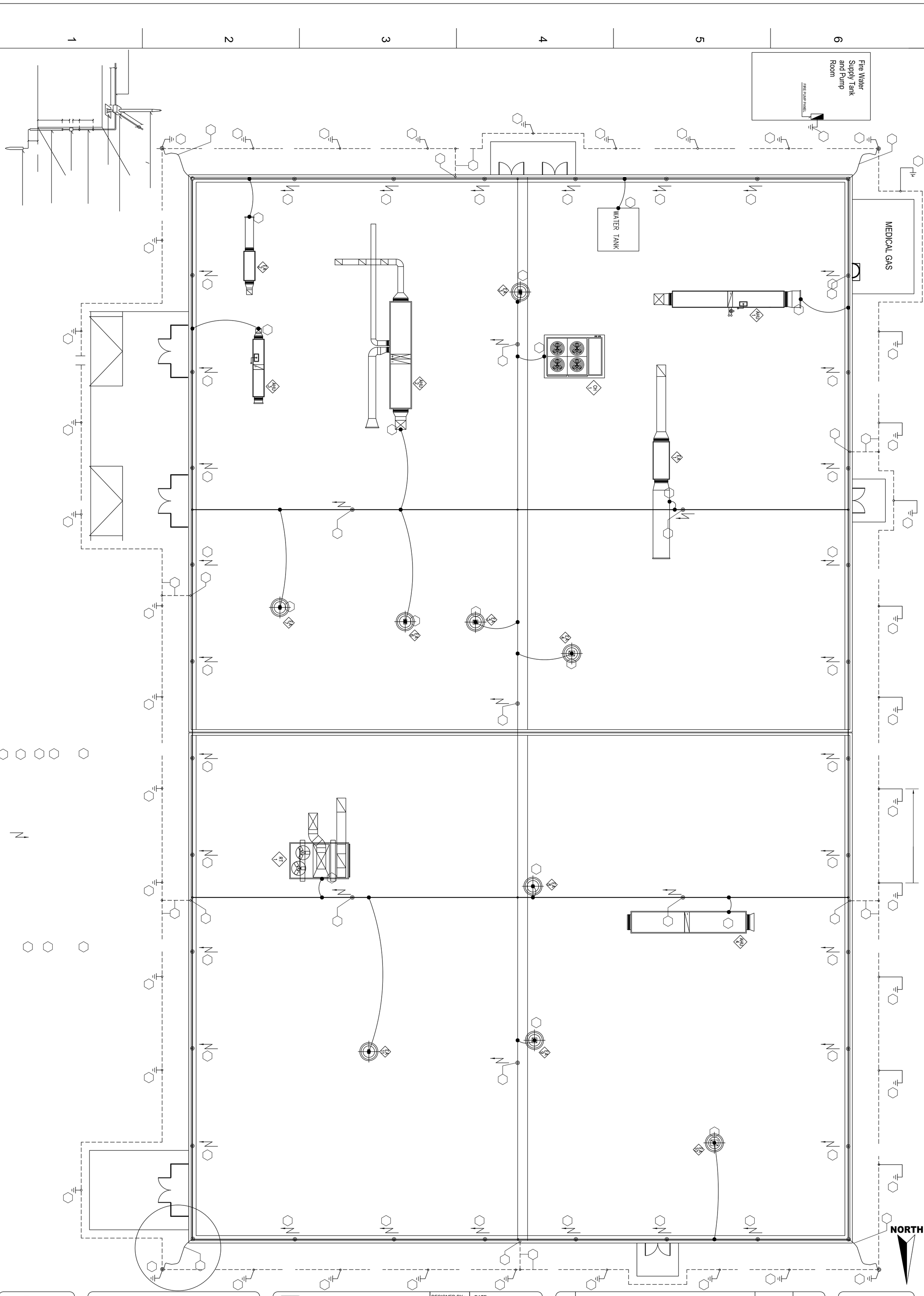
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGNED BY : E. Benli	DATE : 06-05-2006
DWN BY : U. PENEKLI	SUBMITTED BY : DELTA OM
CHK BY : A. LOK	FILE NO : DP01-HH-E03

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

AS-BUILT



SHEET REFERENCE NUMBER : DP01-HH-E02

DESIGN/BUILD

50 BED REGIONAL HOSPITAL

HERAT , AFGHANISTAN

DRAWING OF WORK AS-BUILT

GROUDING AND LIHGTNING PROTECTION PLAN

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGNED BY : E. Benli	DATE : 06-05-2006
DWN BY : U. PENEKLI	SUBMITTED BY : DELTA OM
CHK BY : A. LOK	FILE NO : DP01-HH - E02

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

AS-BUILT

AS-BUILT

NORTH

126 MEDICAL GAS
125 DOCTORS LOCKER
125a
124a
124 NURSES LOCKER
122 OPERATING 2
123 OPERATING HALL
121 SUBSTERILIZING
120 OPERATING 1
118 DIRTY UTILITY
119 OPERATING HALL ENTRANCE
EMERGENCY EXIT
DR. ENT.
N. ENT.
PATIENT ENT.
127 PATIENT WARD
128 PATIENT WARD
129 PATIENT WARD
130 PATIENT WARD
131 PATIENT WARD
132 PATIENT WARD
133 PATIENT LOUNGE & DINING ROOM
134 KITCHENETTE
197 UPS ROOM
142 CORRIDOR
EMERGENCY EXIT
152 VESTIBULE
117 (HV) MECHANICAL
116 CENTRAL STERILIZATION
115 POST OPERATION
PATIENT ENT.
135 LINEN
136 MECHANICAL
137 BLOOD BANK
138 W. WC
139 M. WC
140 W. WC
141 M. WC
143 NURSE DESK
144 STORAGE
NURSE REST ROOM 145
145a WC
146 WC
145a JANITOR ROOM
149 BEDPAN WASHING
147 WC
148 DOCTOR REST ROOM
150 LAUNDRY
151 WC
153 ELECTRICAL
154 STORAGE
155 TELECOM ROOM
MASS NOTIFICATION
FIRE ALARM PANEL
TV PANEL
TELEPHONE / DATA PANEL
165 VIP PATIENT
166 WC
MORGUE & EMERGENCY EXIT
114 CORRIDOR
156 LABORATORY
157 PHYSICAL THERAPY
158 EXAM.
174 CORRIDOR
159 WARD STORAGE
162 DEPUTY
163 MEETING
164 CORRIDOR
111 M.WC
113 MED.EQUIPMENT MAINTENANCE
112 W.WC
110 TRAUMA ROOM
160 EYE CLINIC
161 DIRECTOR
168 MEDICAL RECORDS
DOCTOR OFFICE
109
NURSE DESK
108 EXAM. AREA
169 X-RAY
170 FILM
171 STORAGE
172 DOCTOR OFFICE
173 DOCTOR OFFICE
175 EXAM.
176 EXAM.
177 EXAM.
178 EXAM.
179 M. WC
180 W. WC
181 ADMINISTRATION
107 ADMINISTRATION
CORRIDOR 189
106 QUARANTINE
105
104
103 QUARANTINE
ANTE ROOM 102
ENTRANCE 101
RECEPTION
WAITING AREA
196 VESTIBULE
195 VESTIBULE
M. WC 182
183 W. WC
184 DENTAL
185 DENTAL LAB.
OFFICE 186
187 EXAM.
188 EXAM.
190 MEDICAL STORAGE
191 PHARMACEUTICAL
192 PHARMACY
193 WAITING AREA
194
EMERGENCY & MAIN ENTRANCE
EMERGENCY & MAIN ENTRANCE
ADMINISTRATIVE ENTRANCE

* SEE DIAGRAMS ON SHEET E16

SYMBOL	DESCRIPTION	DATE	APPR.
2	REVISED AS-BUILT	05-JUNE-2006	
1	100% DESIGNS	11-16-05	

DESIGNED BY : E. Benli
DATE : 06-05-2006
DWN BY : U. PENEKLI
SUBMITTED BY : DELTA OM
CHK BY : A. LOK
FILE NO : DP01-HH - E05

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN

DRAWING OF WORK AS-BUILT
TELEPHONE - TV - DATA SYSTEM PLAN

SHEET REFERENCE NUMBER :
DP01-HH-E05

SHEET REFERENCE NUMBER : DP01-HH-E06

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
ROOF LEVEL POWER PLAN

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGNED BY : E. Benli	DATE : 26-11-2005
DWN BY : U. PENEKLI	SUBMITTED BY : DELTA OM
CHK BY : A. LOK	FILE NO : DP01-HH - E06

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

AS-BUILT

AS-BUILT

NORTH

EMERGENCY EXIT

PULL CHORD TYPICAL

BED HEAD UNIT TYPICAL

126 MEDICAL GAS

125 DOCTORS LOCKER

125a

124a

124 NURSES' LOCKER

DR. ENT.

N. ENT.

122 OPERATING 2

123 OPERATING HALL

121 SUBSTERILIZING

118 DIRTY UTILITY

120 OPERATING 1

119 OPERATING HALL ENTRANCE

PATIENT ENT.

127 PATIENT WARD

128 PATIENT WARD

129 PATIENT WARD

130 PATIENT WARD

131 PATIENT WARD

132 PATIENT WARD

133 PATIENT LOUNGE & DINING ROOM

134 KITCHENETTE

UPS ROOM 197

UPS-1

EMERGENCY EXIT

152 VESTIBULE

142 CORRIDOR

117 (HV) MECHANICAL

116 CENTRAL STERILIZATION

PATIENT ENT.

115 POST OPERATION

135 LINEN

136 MECHANICAL

138 W. WC

139 M. WC

137 BLOOD BANK

140 W. WC

141 M. WC

158 EXAM.

174 CORRIDOR

143 NURSE DESK

STORAGE 144

NURSE REST ROOM 145

145a JANITOR ROOM

WC 146

149 BEDPAN WASHING

147 WC

148 DOCTOR REST ROOM

150 LAUNDRY

151 WC

153 ELECTRICAL

154 STORAGE

155 TELECOM ROOM

MORGUE & EMERGENCY EXIT

114 CORRIDOR

159 WARD STORAGE

165 VIP PATIENT

166 WC

BSP-49

111 M.WC

112 W.WC

113 MED.EQUIPMENT MAINTENANCE

110 TRAUMA ROOM

156 LABORATORY

157 PHYSICAL THERAPY

160 EYE CLINIC

161 DIRECTOR

162 DEPUTY

163 MEETING

164 CORRIDOR

166 MEDICAL RECORDS

108 EXAM. AREA

NURSE DESK

109 DOCTOR OFFICE

169 X-RAY

170 FILM

171 STORAGE

172 DOCTOR OFFICE

173 DOCTOR OFFICE

175 EXAM.

176 EXAM.

177 EXAM.

178 EXAM.

179 M. WC

180 W. WC

181 ADMINISTRATION

CORRIDOR 189

107 ADMINISTRATION

106 QUARANTINE

105

104

BSP-53

BSP-52

103 QUARANTINE

ANTE ROOM 102

ENTRANCE 101

RECEPTION

WAITING AREA

M. WC 182

183 W. WC

184 DENTAL

185 DENTAL LAB.

OFFICE 186

187 EXAM.

188 EXAM.

190 MEDICAL STORAGE

191 PHARMACEUTICAL

192 PHARMACY

193 WAITING AREA

196 VESTIBULE

195 VESTIBULE

194

EMERGENCY & MAIN ENTRANCE

EMERGENCY & MAIN ENTRANCE

ADMINISTRATIVE ENTRANCE

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS-BUILT	05-JUNE-2006	
2	100% DESIGNS	11.16.05	

DESIGNED BY : E. Benli
DATE : 06-05-2006
DWN BY : U. PENEKLI
SUBMITTED BY : DELTA OM
CHK BY : A. LOK
FILE NO : DP01-HH - E07

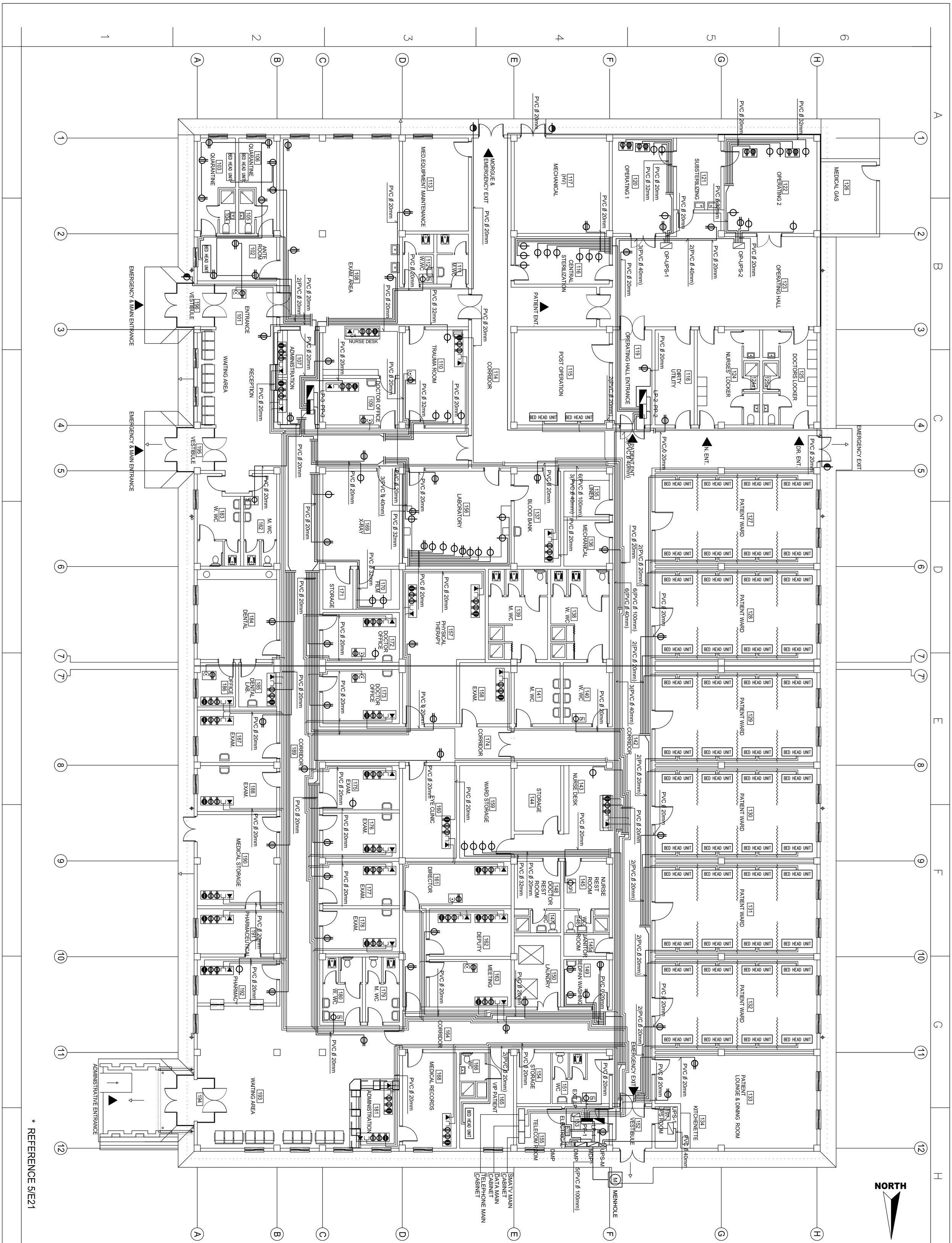
US Army Corps of Engineers
Afghanistan Engineer District
Kabul Afghanistan

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

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
NURSE CALL SYSTEM PLAN

SHEET REFERENCE NUMBER :

DP01-HH-E07



SHEET REFERENCE NUMBER : DP01-HH-E08

DESIGN/BUILD

50 BED REGIONAL HOSPITAL

HERAT , AFGHANISTAN

DRAWING OF WORK AS-BUILT

PVC CONDIUTS BELOW SLAB DISTRIBUTION PLAN

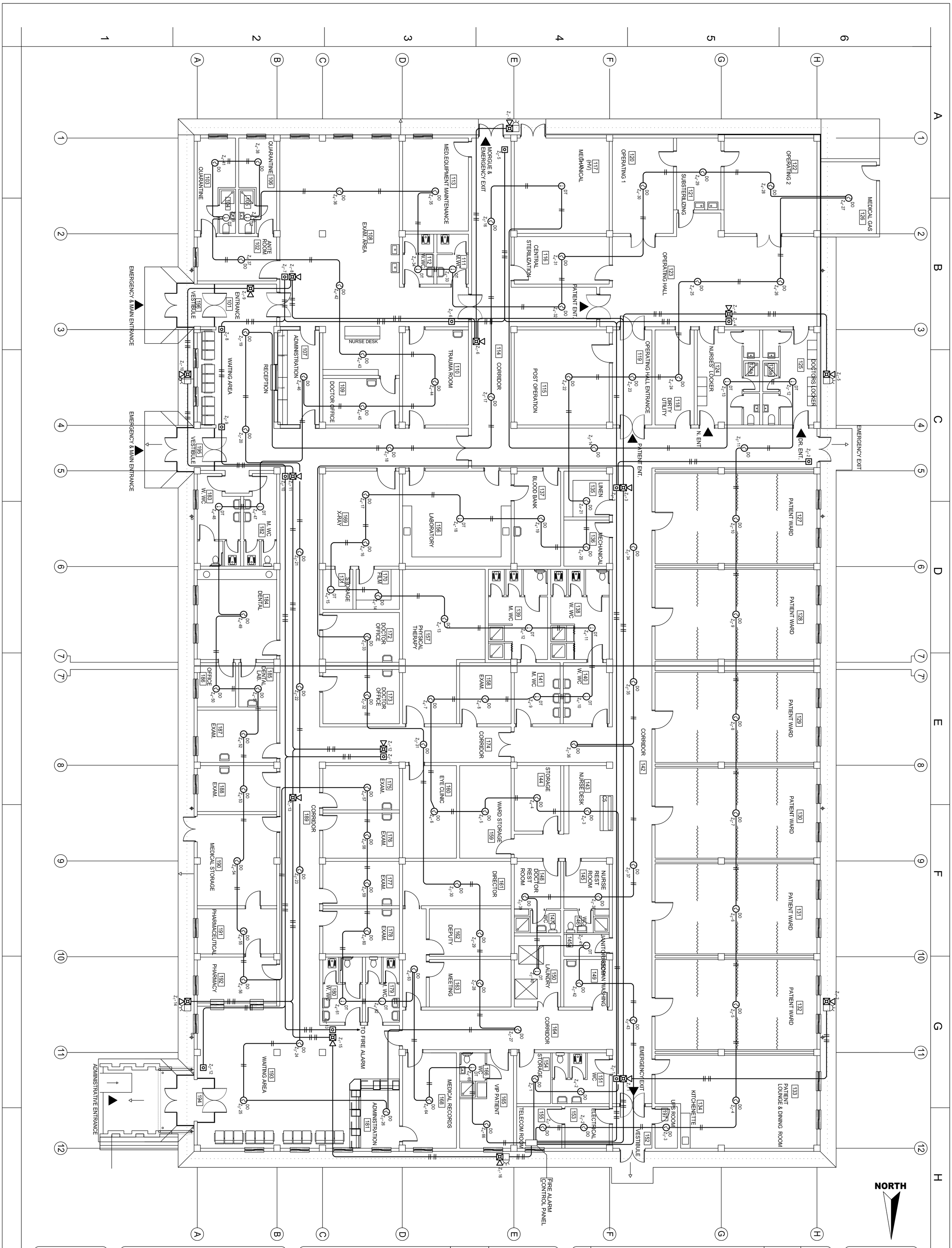
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGNED BY : E. Benli	DATE : 06-05-2006
DWN BY : U. PENEKLI	SUBMITTED BY : DELTA OM
CHK BY : A. LOK	FILE NO : DP01-HH - E08

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

AS-BUILT



SHEET REFERENCE NUMBER : DP01-HH-E09

DESIGN/BUILD

50 BED REGIONAL HOSPITAL

HERAT , AFGHANISTAN

DRAWING OF WORK AS-BUILT

FIRE ALARM SYSTEM PLAN

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGNED BY :	DATE :
E. Benli	06-05-2006
DWN BY :	SUBMITTED BY :
U. PENEKLI	DELTA OM
CHK BY :	FILE NO :
A. LOK	DP01-HH - E09

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

AS-BUILT

AS-BUILT

NORTH

EMERGENCY EXIT
126 MEDICAL GAS
DOCTORS LOCKER
125
DR. ENT.
123 OPERATING HALL
PA-22
122 OPERATING 2
125a
124a
121 SUBSTERILIZING
PA-21
124 NURSES' LOCKER
N. ENT.
PA-20
118 DIRTY UTILITY
PA-19
120 OPERATING 1
119 OPERATING HALL ENTRANCE
PA-18
PATIENT ENT.
127 PATIENT WARD
128 PATIENT WARD
129 PATIENT WARD
130 PATIENT WARD
131 PATIENT WARD
132 PATIENT WARD
PATIENT LOUNGE & DINING ROOM 133
134 KITCHENETTE
UPS ROOM 197
EMERGENCY EXIT
152 VESTIBULE
142 CORRIDOR
ANNOUCMENT UNIT
143 NURSE DESK
PA-2
PA-3
117 (HV) MECHANICAL
116 CENTRAL STERILIZATION
PA-17
115 POST OPERATION
PA-15
PA-16
PATIENT ENT.
135 LINEN
136 MECHANICAL
137 BLOOD BANK
PA-14
138 W. WC
PA-7
140 W. WC
141 M. WC
PA-4
139 M. WC
PA-8
158 EXAM.
PA-5
174 CORRIDOR
EXAM 158
PA-6
STORAGE 144
NURSE REST ROOM 145
145a JANITOR ROOM
146 WC
147 WC
148 DOCTOR REST ROOM
BEDPAN WASHING
149
150 LAUNDRY
164 CORRIDOR
151 WC
PA-1
ELECTRICAL 153
154 STORAGE
TELECOM ROOM 155
AMP.
165 VIP PATIENT
166 WC
159 WARD STORAGE
160 EYE CLINIC
PA-39
161 DIRECTOR
162 DEPUTY
163 MEETING
PA-34
168 MEDICAL RECORDS
181 ADMINISTRATION
MORGUE & EMERGENCY EXIT
MED.EQUIPMENT MAINTENANCE 113
PA-24
111 W.WC
112 W.WC
PA-25
PA-26
110 TRAUMA ROOM
PA-23
156 LABORATORY
157 PHYSICAL THERAPY
PA-13
PA-9
PA-30
PA-29
108 EXAM. AREA
NURSE DESK
PA-27
109 DOCTOR OFFICE
PA-31
PA-32
107 ADMINISTRATION
PA-28
169 X-RAY
PA-12
PA-11
PA-10
170 FILM
171 STORAGE
172 DOCTOR OFFICE
173 DOCTOR OFFICE
175 EXAM.
PA-38
176 EXAM.
PA-37
177 EXAM.
PA-36
178 EXAM.
PA-35
PA-50
179 M. WC
180 W. WC
PA-40
CORRIDOR 189
ANNOUCMENT UNIT
RECEPTION
106 QUARANTINE
105
104
103 QUARANTINE
PA-33
ANTE ROOM 102
ENTRANCE 101
WAITING AREA
182 M. WC
PA-49
183 W. WC
PA-48
184 DENTAL
PA-47
185 DENTAL LAB.
PA-46
OFFICE 186
PA-45
187 EXAM.
PA-44
188 EXAM.
PA-43
190 MEDICAL STORAGE
PA-42
PA-41
191 PHARMACEUTICAL
192 PHARMACY
193 WAITING AREA
196 VESTIBULE
195 VESTIBULE
194
EMERGENCY & MAIN ENTRANCE
EMERGENCY & MAIN ENTRANCE
ADMINISTRATIVE ENTRANCE

SYMBOL	DESCRIPTION	DATE	APR.
1	REVISED AS-BUILT	05-JUNE-2006	
2	100% DESIGNS	11.16.05	

DESIGNED BY : E. Benli
DWN BY : U. PENEKLI
CHK BY : A. LOK
DATE : 06-05-2006
SUBMITTED BY : DELTA OM
FILE NO : DP01-HH - E10

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

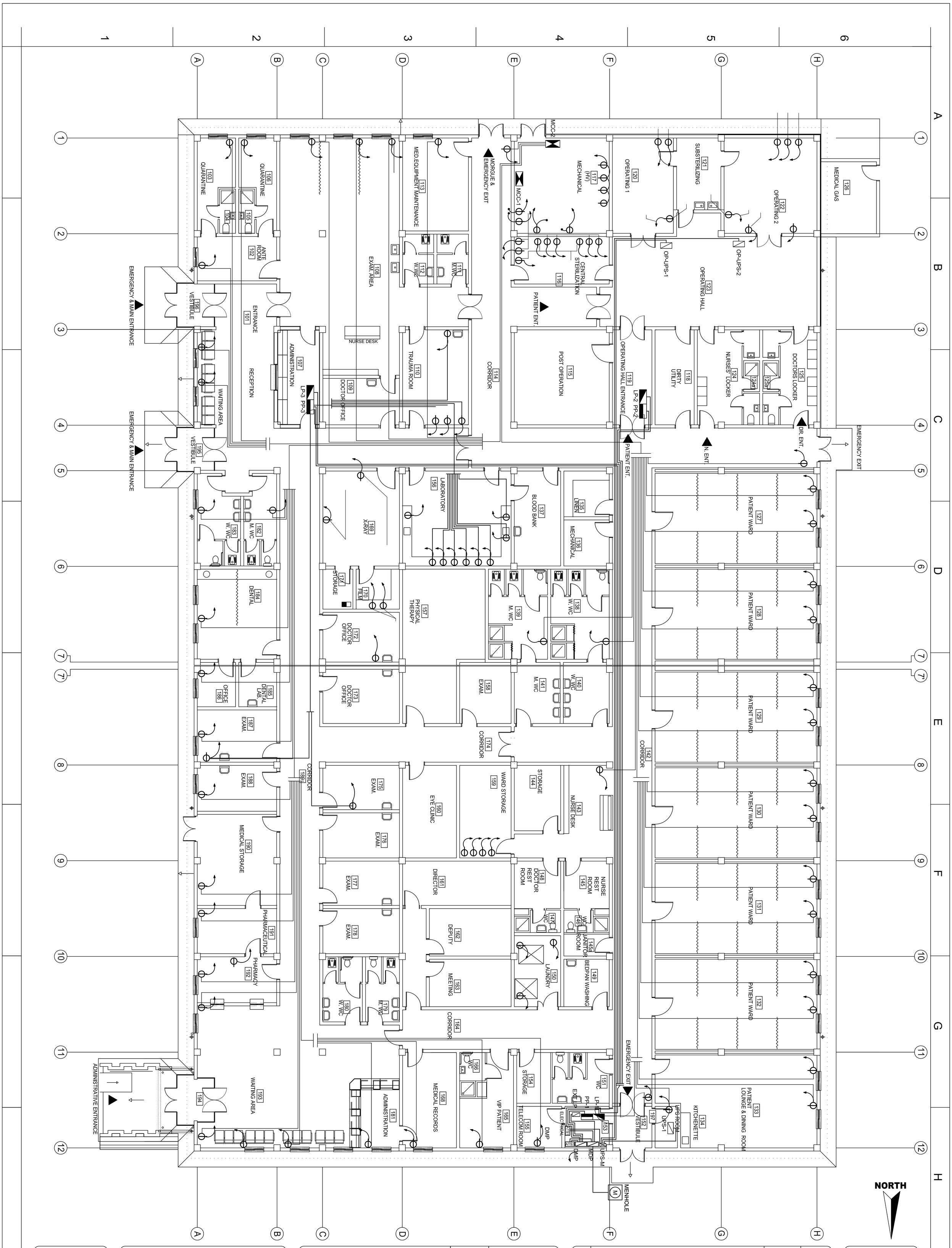
Design/Build

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN

DRAWING OF WORK AS-BUILT
PUBLIC ADREES & MASS NOTIFICATION SYSTEM PLAN

SHEET REFERENCE NUMBER :
DP01-HH-E10

* REFERENCE SHEET E12 FOR SINGLE LINE DIAGRAM



SHEET REFERENCE NUMBER : DP01-HH-E11

DESIGN/BUILD

50 BED REGIONAL HOSPITAL

HERAT , AFGHANISTAN

DRAWING OF WORK AS-BUILT

POWER SYSTEM PLAN

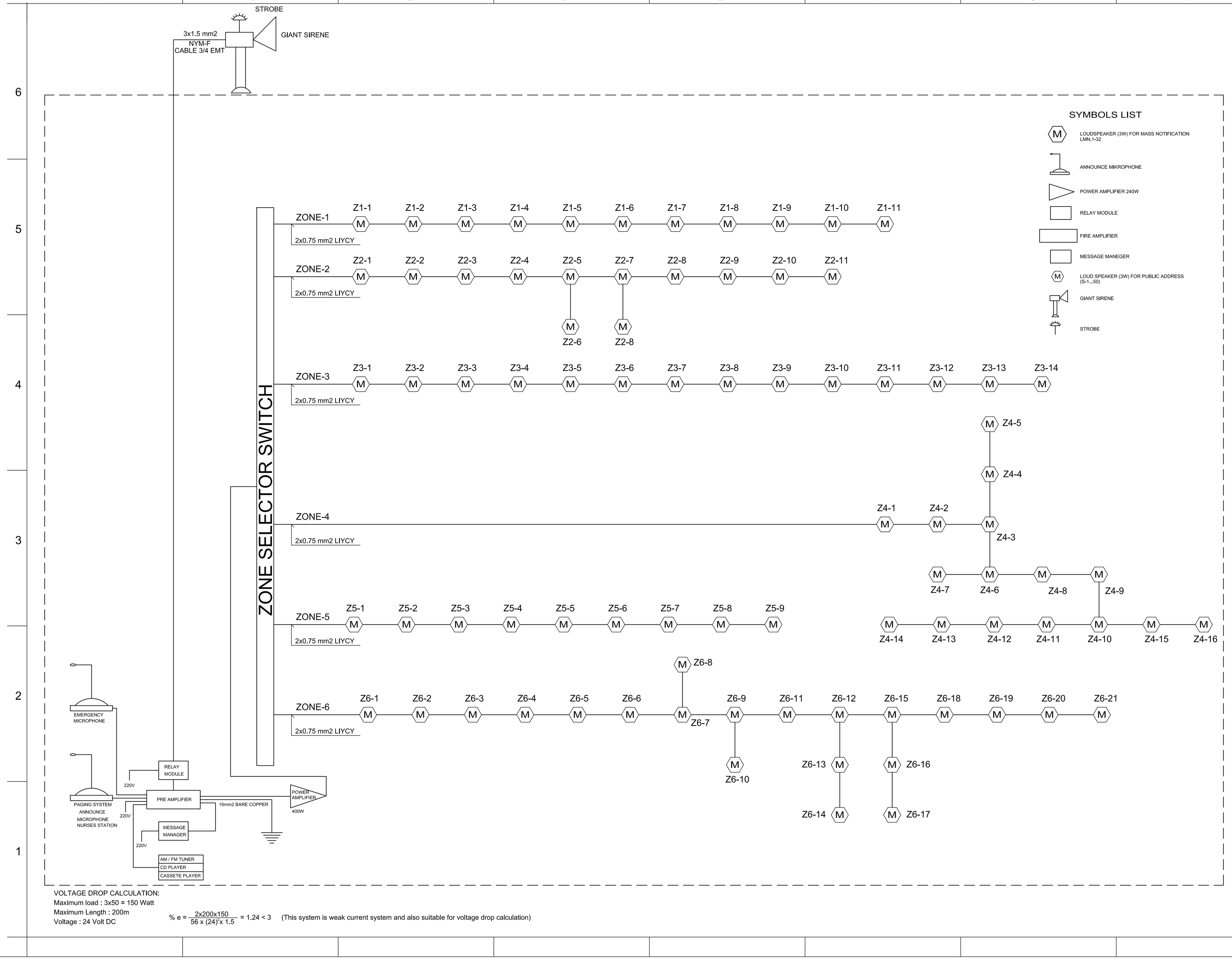
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGNED BY : E. Benli	DATE : 06-05-2006
DWN BY : U. PENEKLI	SUBMITTED BY : DELTA OM
CHK BY : A. LOK	FILE NO : DP01-HH - E11

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

AS-BUILT



VOLTAGE DROP CALCULATION:
Maximum load : 3x50 = 150 Watt
Maximum Length : 200m
Voltage : 24 Volt DC

$$\% e = \frac{2x200x150}{56 \times (24)^2 \times 1.5} = 1.24 < 3$$

(This system is weak current system and also suitable for voltage drop calculation)

AS-BUILT

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
	100% DESIGNS	11.16.05	

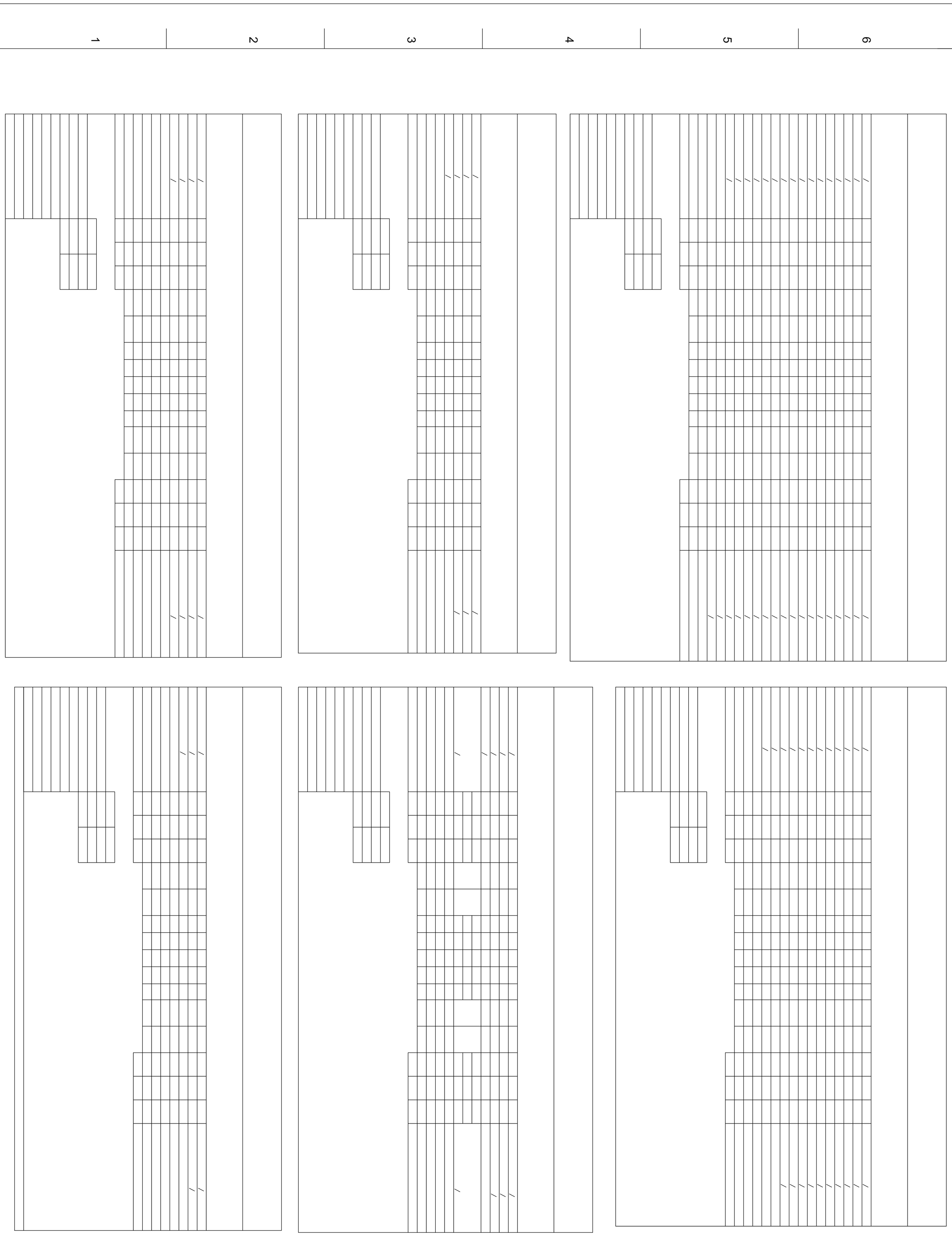
DESIGNED BY : E. Benli
DATE : 06-05-2006
DWN BY : U. PENEKLI
SUBMITTED BY : DELTA OM
CHK BY : A. LOK
FILE NO : DP01-HH - E12

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
PUBLIC ADDRESS & MASS NOTIFICATION SINGLE LINE DIAGRAM

SHEET REFERENCE NUMBER :
DP01-HH-E12



SHEET REFERENCE NUMBER :
DP01-HH-E13

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT , AFGHANISTAN
DRAWING OF WORK AS-BUILT
PANEL BOARD SCHEDULE - 1

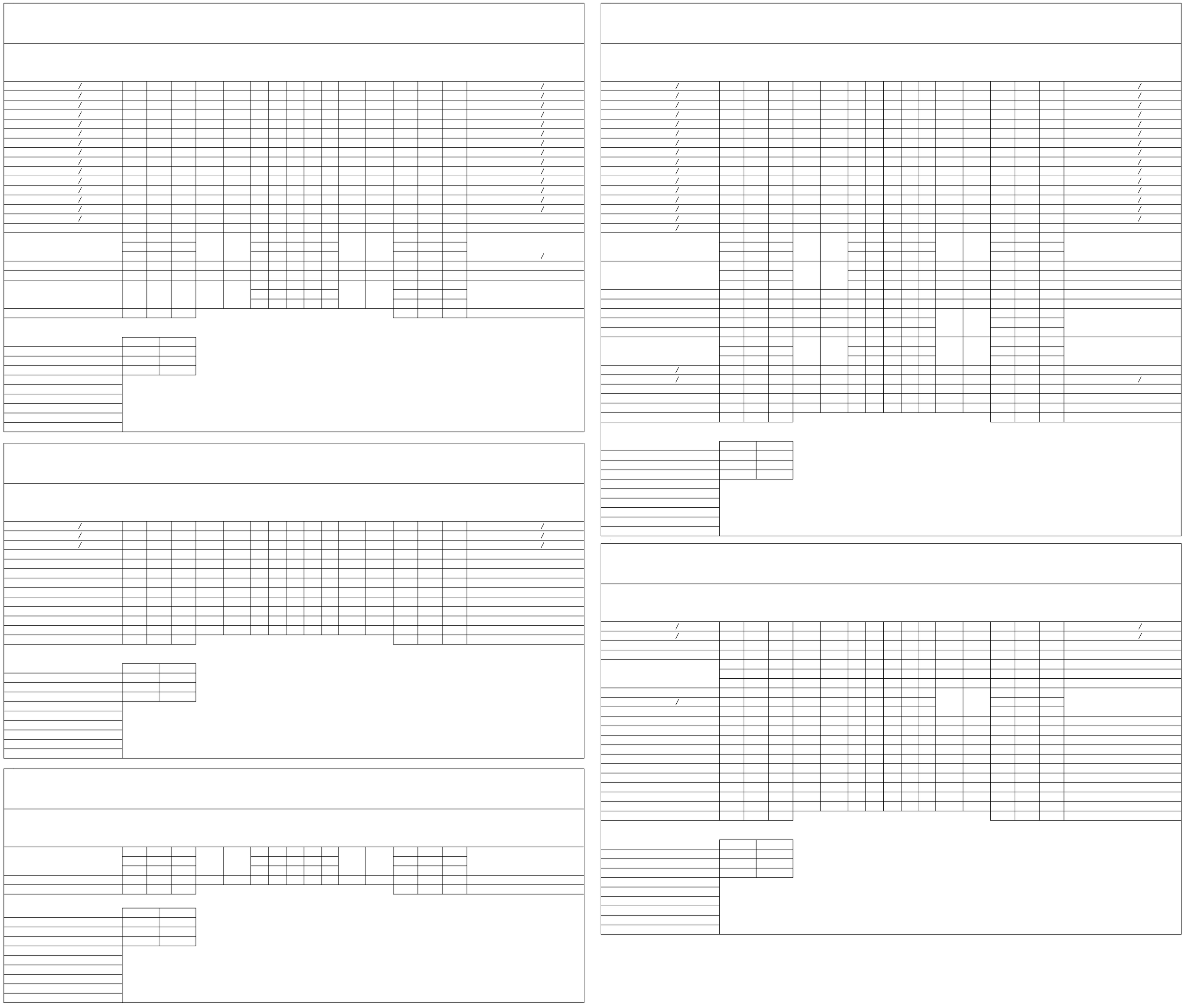
US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

DESIGNED BY :	DATE :
E. Benli	06-05-2006
DWN BY :	SUBMITTED BY :
U. PENEKLI	DELTA OM
CHK BY :	FILE NO :
A. LOK	DP01-HH - E13

SYMBOL	DESCRIPTION	DATE	APR.
	REVISED AS-BUILT	05-JUNE-2006	
0	100% DESIGNS	11.16.05	

AS-BUILT



AS-BUILT

SYMBOL	DESCRIPTION	DATE	APR.
1	REVISED AS-BUILT	05-JUNE-2006	
	100% DESIGNS	11.16.05	

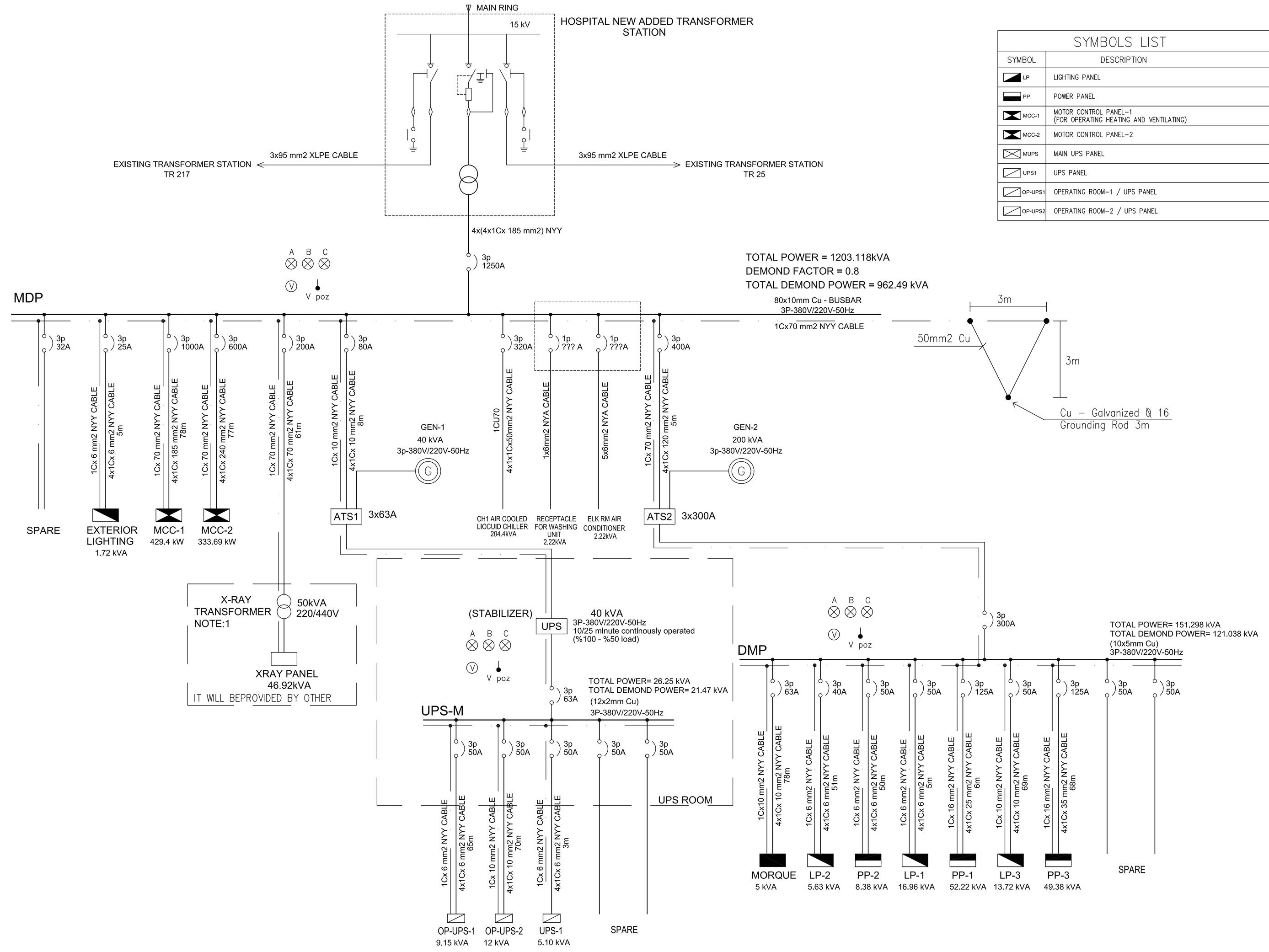
DESIGNED BY : E. Benli
DATE : 06-05-2006
DWN BY : U. PENEKLI
SUBMITTED BY : DELTA OM
CHK BY : A. LOK
FILE NO : DP01-HH - E14

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
PANEL BOARD SCHEDULE - 2

SHEET REFERENCE NUMBER :
DP01-HH-E14



SYMBOLS LIST	
SYMBOL	DESCRIPTION
LP	LIGHTING PANEL
PP	POWER PANEL
MCC-1	MOTOR CONTROL PANEL–1 (FOR OPERATING HEATING AND VENTILATING)
MCC-2	MOTOR CONTROL PANEL–2
MUPS	MAIN UPS PANEL
UPS1	UPS PANEL
OP-UPS1	OPERATING ROOM–1 / UPS PANEL
OP-UPS2	OPERATING ROOM–2 / UPS PANEL

NOTE 1: VOLTAGE RATIO IN X–RAY TRANSFORMER WILL BE GIVEN FROM X–RAY MACHINE MANUFACTURER

NOTE 2: MEDIUM VOLTAGE CABLES, TRANSFORMER AND MEDIUM VOLTAGE CABINETS AND ALL RELATED WORKS ARE NOT IN THIS CONTRACT SCOPE OF WORK. IT WILL BE PROVIDED BY OTHER

AS-BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS-BUILT	05-JUNE-2006	
	100% DESIGNS	11:16:05	

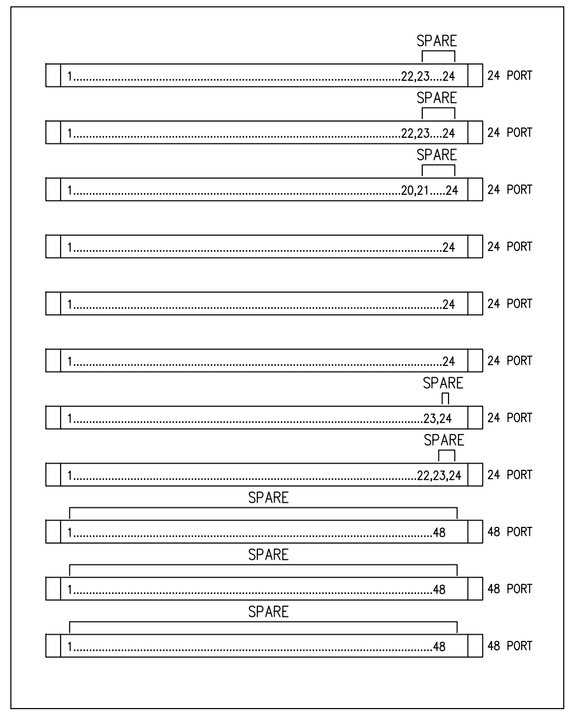
DESIGNED BY : E. Benli
DRWN BY : U. PENEKLI
CHK BY : A. LOK
DATE : 06-05-2006
SUBMITTED BY : DELTA OM
FILE NO : DP01-HH - E15

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

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

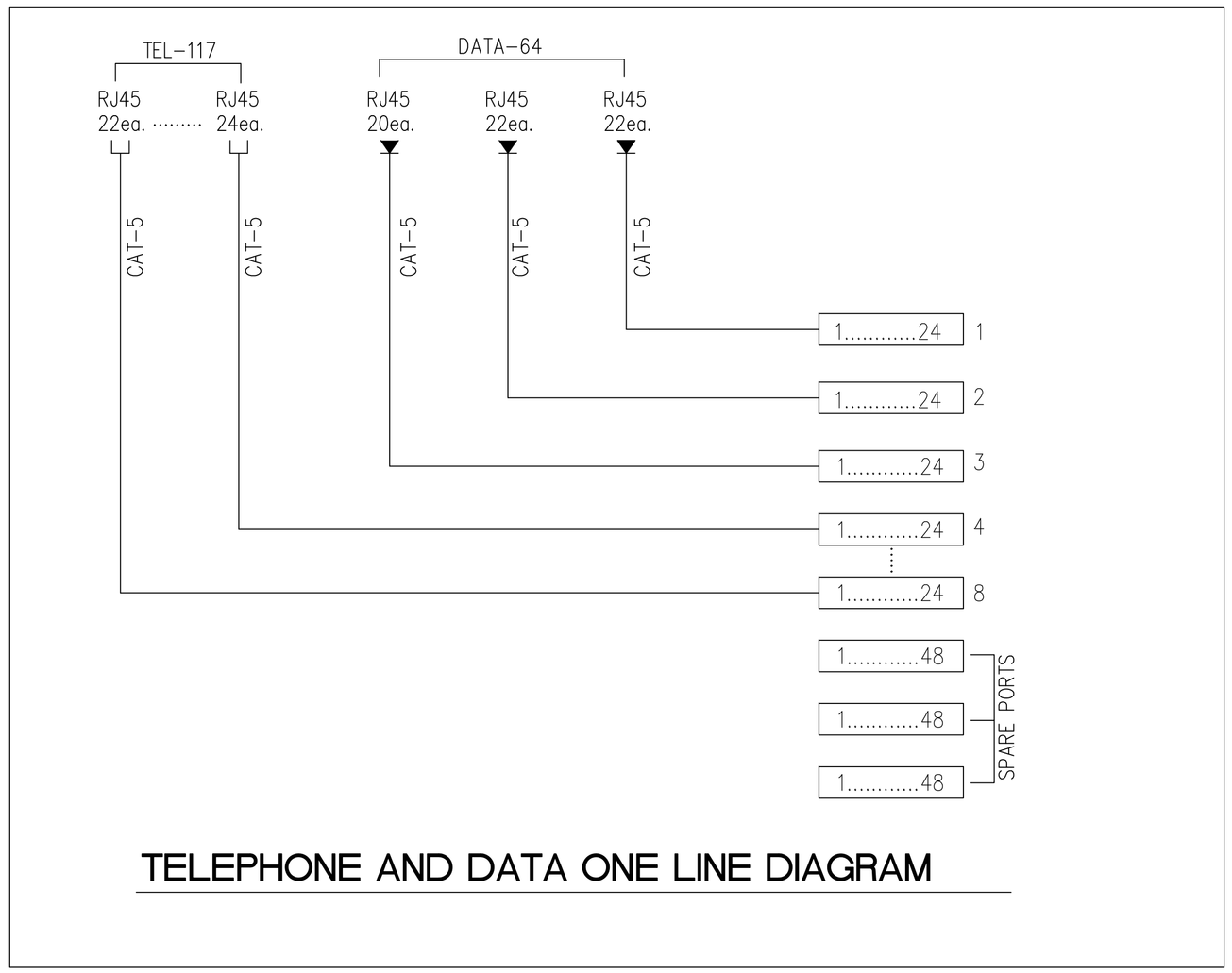
DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN
DRAWING OF WORK AS-BUILT
POWER SINGLE LINE DIAGRAM

SHEET REFERENCE NUMBER :
DP01-HH-E15



FACE OF TELEPHONE DATA PANEL

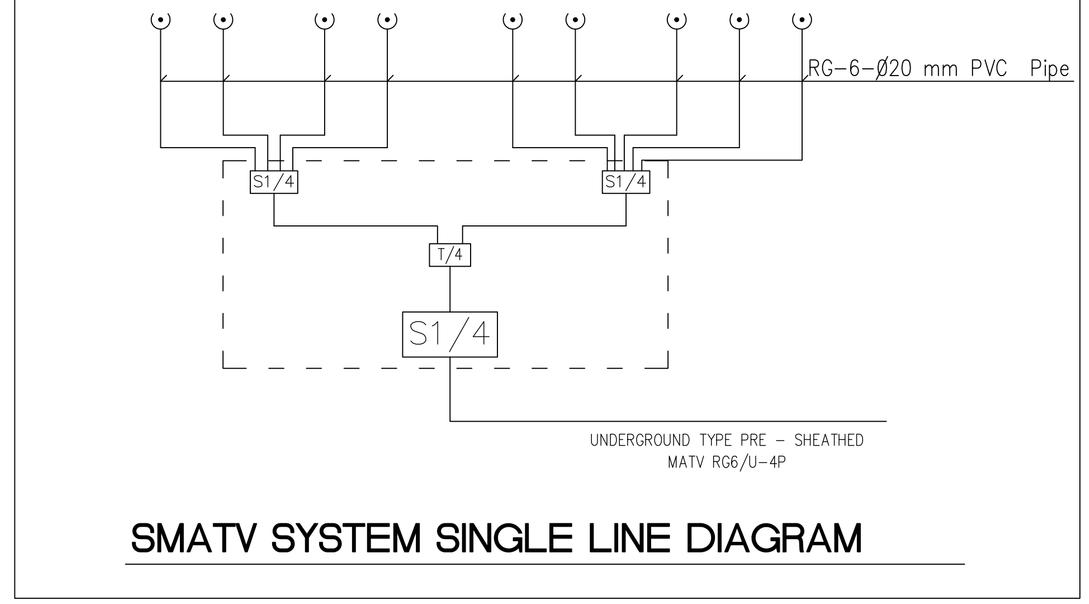
(See Telephone + Data one line diagram below)



TELEPHONE AND DATA ONE LINE DIAGRAM

SYMBOLS LIST

SYMBOL	DESCRIPTION
⊔	TELEPHONE OUTLET DUBLEX, RJ-11 4 PAIR CATEGORY 5 MOUNTING HEIGHT= 500mm (AFFL)
▼	DATA COMPUTER OUTLET DUBLEX, RJ-45 4 PAIR CATEGORY 5 MOUNTING HEIGHT= 500mm (AFFL)
⊙	TV OUTLET



SMATV SYSTEM SINGLE LINE DIAGRAM

AS-BUILT

SYMBOL	DESCRIPTION	DATE	APPR.
1	REVISED AS-BUILT	05-JUNE-2006	
	100% DESIGNS	11.16.05	

DESIGNED BY : E. Benli
DRN BY : U. PENEKLI
CHK BY : A. LOK
DATE : 06-05-2006
SUBMITTED BY : DELTA OM
FILE NO : DP01-HH - E16

US Army Corps of Engineers
Afghanistan Engineer District
Kabul, Afghanistan

KOLİN in association with
COJINC
IRMAK, STAND, BESELI, DELTA OM

Designbuilder

DESIGN/BUILD
50 BED REGIONAL HOSPITAL
HERAT, AFGHANISTAN

DRAWING OF WORK AS-BUILT

TELEPHONE - TV - DATA SYSTEM
SINGLE LINE DIAGRAM

SHEET REFERENCE NUMBER :

DP01-HH-E16