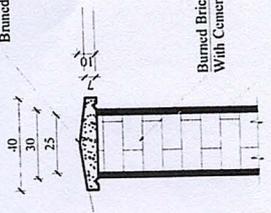


(1:2:4)

P.C.C Copping Cast in place W= 40cm/7-10
Burned brick wall T= 25 cm.



P.C.C Slab 40cm x 10cm According to Sheep.

(1:2:4)

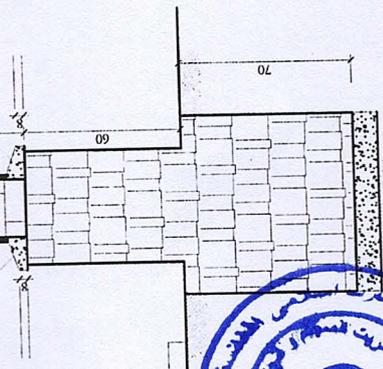
Burned Brick Wall/
With Cement Lime mortar

Cement + Lime Plaster / Both Sides

(1:2:4)

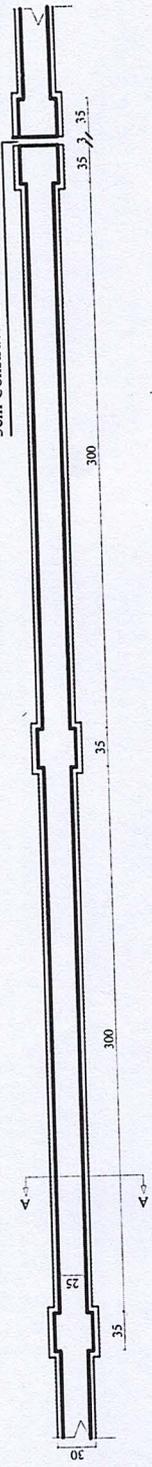
P.C.C According to Sheep.

P.C.C According to Sheep.



Section A-A

3 cm Construction Joint at Each 15m.



Plan



Handwritten signatures and notes in blue ink.

دفعه ۱۲
دوره اول از تاریخ ۱۳۸۵/۰۶/۰۱
تا تاریخ ۱۳۸۵/۰۶/۰۱
کارشناس: ...

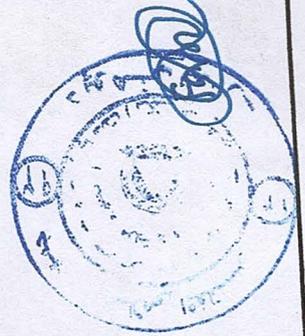
SCALE:		DRAWING TITLE:		SHEET NO:	
		BOUNDARY WALL		5	
PLOT DATE:		BOUNDARY WALL		14	
FILE NAME:	ARCHITECT:	DESIGNED BY:	CHECKED BY:	DRAWING NO:	
		Ch. Pirooz Ahladi	Arch. Humayoun "Rafiq"		
APPROVED BY:		APPROVED BY:		Lars Pedersen	
TENDER SET SUBMISSION		BOUNDARY WALL		MANABAH PROVINCE	
REVISION NO:	DATE	REVISION NO:	DATE	DESCRIPTION	
DAARTT CONSTRUCTION PROGRAM		DAARTT CONSTRUCTION PROGRAM		DAARTT CONSTRUCTION PROGRAM	
DANISH ASSISTANCE TO AFGHAN REHABILITATION & TECHNICAL TRAINING		DANISH ASSISTANCE TO AFGHAN REHABILITATION & TECHNICAL TRAINING		DANISH ASSISTANCE TO AFGHAN REHABILITATION & TECHNICAL TRAINING	



INDEX OF ELECTRICAL DRAWINGS FOR GUARD ROOM

ELECTRICAL

SHEET NO	DRAWING NO	DRAWING TITLE	SCALE
G-00		LEGEND, GENERAL NOTES & ABBREVIATIONS:	
EG-01		IN COMING CABLE PLAN	NTS
EG-02		LIGHTING PLAN	NTS
EG-03		CABLE PLAN	NTS
EG-04		MDB DIAGRAM PLAN	



GENERAL NOTES AND LEGEND
ELECTRICAL SYSTEMS

LIGHTING:

SF-1	SURFACE MOUNTED ENERGY SEVERE TUBULOBE FITTING ROUND LIGHT 1x36W, 230V, 50Hz
SF-2	SURFACE MOUNTED ENERGY SEVERE TUBULOBE FITTING ROUND LIGHT 2x36W, 230V, 50Hz
	SURFACE MOUNTED TUBULOBE FITTING ROUND LIGHT 1x36W, 230V, 50Hz

RECEPTACLES:

	SINGLE RECEPTACLE, 230V, 16A, 1PH, 3PAIN DIA MOUNTING HEIGHT = 400mm AFF
	SINGLE RECEPTACLE WATER PROOF, 230V, 16A, 1PH, 3PAIN, DIA MOUNTING HEIGHT = 80mm AFF

SWITCHES:

	SINGLE POLE SWITCH, 230V, 50Hz, 10A, MOUNTED AT 1200mm AFF
	DOUBLE POLE SWITCH, 230V, 50Hz, 10A, MOUNTED AT 1200mm AFF

PANEL BOARD

	MAIN DISTRIBUTION BOARD (MDB)
	SUB DISTRIBUTION BOARD (SDB)
	LIGHTS FOR ON/OFF PHASING

POWER

	SINGLE PHASE AUTO CIRCUIT BREAKER
	THREE PHASE AUTO CIRCUIT BREAKER
	120mmX120mm JUNCTION BOX
	CIRCUIT HOME RUN TO ELECTRICAL PANEL, BOARD, LIGHTING PANEL BOARD
	WIRE 1(2x1.5)mm ² TYPE NYF
	WIRE 1(3x2.5)mm ² TYPE NYF
	FLEXIBLE CABLE 10 X 9mm ²
	FLEXIBLE CABLE 10 X 16mm ²

GROUNDING AND LIGHTNING:

	GROUNDING ROD 3m, Ø20mm
	GROUNDING CONDUCTOR
	EXOTHERMIC WELDED GROUND CONNECTION
	3 METER LENGTH, Ø 20mm DIAMETER, COPPER GROUNDING ROD

COLORS COD

IEC WIRE COLORS (60227)		
GROUND	NEUTRAL	PHASE C
YEL/GRN	BLUE	BROWN
	BLACK	GRAY

LEGEND, GENERAL NOTES & ABBREVIATIONS:

REF. _____ SCALE: NTS

METRIC CONDUCTOR CROSS SECTION mm ²	COMPLETED CONVERSION mm ²	ADVERTISED CROSS SECTION mm ²
12	3.31	4
10	5.27	6
8	8.11	10
6	11.04	16
4	21.2	25
3	26.7	25
2	33.6	35
1	42.4	50
10	53.4	50
20	67.5	70
30	85	95
40	107.2	120
250	126.7	120
300	152.0	150
350	185	185
400	207.7	240
		300

ABBREVIATIONS:

AFEL	AMPERE ABOVE FINISH FLOOR LEVEL	AF	AMP FRAME	AT	AMP TRIP	BL	BAILER	C/CON	CONDUIT	CB	CIRCUIT BREAKER	CKT	CIRCUIT	CU	CONVERTING UNIT	CHH	COMMUNICATION HANDHOLD	CH	CHAMBER	EXH	EXHAUST FAN	EHT	ELECTRICAL HANDHOLD	EHT	ELECTRIC METALLIC TUBING	EWH	ELECTRICAL WATER HEATER	WT	WATER PROOF	FACP	FAIRE ALARM CONTROL PANEL	GFCL	GROUND FAULT INTERRUPTER	GRS	GALVANIZED RIGID STEEL	HPS	HIGH PRESSURE SODIUM	HP	HORSEPOWER	HZ	HERTZ	IN	INCH	INT	INSTRUMENT	L	LAMP	L.F.	LIGHT FIXTURE	LPB	LIGHTING POWER BOARD	L.F.	LIGHT FIXTURE	N	NEW	NMB	NEW MAIN BOARD	NCP	NEW CONTROL PANEL	MAX	MAXIMUM	MECH	MECHANICAL	MLO	MAIN LUGS ONLY	mm	MILLIMETER	NTS	NOT TO SCALE	P	POLE	PC	PHOTO CELL	PP	POWER PANEL	PVC	POLY VINYL CHLORIDE	PH	PHASE	RM	ROOM	SCH	SCHEDULE	SP	SPECIAL	SW	SWITCH	TTC	TELEPHONE TERMINAL CABINET	TYP	TYPICAL	U.O.N.	UNLESS OTHERWISE NOTED	V	VOLT	W	WATT	WP	WEATHER PROOF	LC	LIGHTING CIRCUIT	TDB	TECHNICAL DISTRIBUTION BOARD
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INSTALLATION OF EQUIPMENTS:

- GROUNDING/EARTHING SHALL BE ACCORDING TO SHEET NO. E-12
- ALL WIRING SHALL BE SPREAD WIRE WITHOUT CONDUIT UNDER PLASTERING
- GRADING SHALL BE ACCORDING TO THE PANEL BOARD AND CIRCUIT SCHEDULE
- LIGHTS SPECS ARE TABULATED IN THE DRAWINGS, REFER TO THE TABLE BEFORE PURCHASING LIGHTS
- SWITCHES AND SOCKETS SHALL BE INSTALLED 15 CM OFF THE DOORS AND WINDOWS
- GRID POWER CABLE GOES TO PANEL BOARD, IT IS LOCATED IN GUARD ROOM.
- PANEL BOARD IS CONNECTED TO SUB PANEL BOARD NO. 1
- SWITCHES SHALL BE INSTALLED 120 CM ABOVE THE FINISHED FLOOR
- SOCKETS SHALL BE INSTALLED 40 CM ABOVE THE FINISHED FLOOR
- GFI SOCKET SHALL BE INSTALLED 180 CM ABOVE THE FINISHED FLOOR
- JOINT BOX SHALL BE 30 CM OFF THE FINISHED CEILING
- FUSE BOX SHALL BE INSTALLED 180 CM ABOVE THE FINISHED FLOOR
- ALL FUSE BOXES SHALL HAVE 40 % SPARE CAPACITY
- DISTANCE OF SOCKET SHALL BE ACCORDING TO THE PLANNED DISTANCE.

STANDARD AND CODE REFERENCES:

IN ORDER TO IMPROVE THE QUALITY OF DESIGN ALL PERFORMANCES SHALL BE ACCORDING TO THE IEC STANDARDS AND USING SOFTWARE'S, CODES, STANDARDS AND SOFTWARE'S ARE AS FOLLOWS:

- IEC: NATIONAL ELECTRIC CODE.
- NEMA: NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION.
- IEC: INTERNATIONAL ELECTRO TECHNICAL COMMISSION.
- BS: BRITISH STANDARD.
- IEC60364: INTERNATIONAL ELECTRO TECHNICAL COMMISSION.
- IEEE: INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS.
- NFPA: NATIONAL FIRE PROTECTION ASSOCIATION
- CEC: CANADIAN ELECTRICAL CODE
- NESC: UNITED STATES, NATIONAL ELECTRICAL SAFETY CODE.
- NES: NATIONAL ELECTRICAL SAFETY CODE (ANSI C2).

GROUNDING:

ALL POWER PANELS, BUS BARS, CIRCUIT BREAKERS, CIRCUITS AND EXPOSED NON-CURRENT CARRYING METALLIC PARTS OF ELECTRICAL EQUIPMENT SHALL BE GROUNDED IN ACCORDANCE WITH THE DESIGN WORK. BUILDINGS WIRING SHALL BE GROUNDED IN ACCORDANCE WITH THE METAL PIPING AND GROUND SYSTEMS SHALL BE TESTED AND FOUND TO BE IN COMPLIANCE WITH CODE REQUIREMENTS BEFORE ACCEPTANCE. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE NEC 2008.

THE GROUNDING RESISTANCE SHALL BE NO HIGHER THAN 25 OHMS EXCEPT RAINFALL RESISTANCE. GROUND RODS SHOULD BE USED TO ACHIEVED THE REQUIRED RESISTANCE.



NOTE:
FOR GENERAL NOTE-REFER TO THE SHEET E- 01
FOR LEGEND AND ABBREVIATION REFER TO THE SHEET E-01
FOR IN COMING CABLE PLAN REFER TO THE SHEET E-07
FOR SDB-1 DIAGRAM PLAN REFER TO THE SHEET E-08
FOR SDB-2 DIAGRAM PLAN REFER TO THE SHEET E-07
FOR SDB-3, SDB-4 DIAGRAM PLAN REFER TO THE SHEET E-08
FOR DETAIL PLAN REFER TO THE SHEET E-09
FOR EARTHING DETAIL PLAN REFER TO THE SHEET E-10

DRAWING TITLE: _____ SCALE: _____

LEGEND, GENERAL NOTES & ABBREVIATIONS:

REVISION: NO. _____ DATE _____ DESCRIPTION _____

REF. _____ SCALE: NTS

DAARTT CONSTRUCTION PROGRAM
DANISH ASSISTANCE TO AFGHAN REHABILITATION & TECHNICAL TRAINING

TENDER SET SUBMISSION DATE: _____

RCC 16 CLASSROOM SCHOOL BUILDING
MAMAWAL FARYAB PROVINCE

PLOT DATE: _____ FILE NAME: RCC-16 Classroom School Building

DRAWING BY: Eng. Farhad Lars "Parderson"

APPROVED BY: _____

SHEET NO. G-00