

MEP COORDINATION

DISCIPLINES	NAME	DATE	SIGNATURE
ME - HVAC	ATEF ZEIN		
ME - PLUMB	ATEF ZEIN		
EE	SAMIR HAZZI		

NOTES :

- THIS DRAWING SHALL BE READ IN CONJUNCTION WITH ALL OTHER ELECTRICAL DRAWINGS, THE ELECTRICAL SERVICE SPECIFICATION, CIVIL/STRUCTURAL ENGINEERING & ARCHITECTURAL SPECIFICATION, DRAWINGS AND ALL OTHER RELEVANT DOCUMENTATION ISSUED UNDER THIS CONTRACT.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FINAL POSITIONING AND CO-ORDINATION OF ALL SERVICES WITH THE STRUCTURE, THE POSITIONING OF ELECTRICAL SERVICES PLANT/ EQUIPMENT FITTING AND FIXTURES SHALL BE SUBJECT TO SITE APPROVAL BY THE ENGINEER.
- EXACT LOCATIONS OF ALL MECHANICAL EQUIP., ISOLATING SWITCHES AND OUTLETS FOR EQUIPMENT SHALL BE COORDINATED WITH THE MECHANICAL WORKING DRAWING.
- ALL OUTDOOR SWITCHES, BOXES & FITTINGS SHALL BE WEATHER PROOF.
- FINAL CIRCUITS WITHIN THE BUILDING SHALL BE WIRED WITH PVC WIRES RUN IN CONCEALED PVC CONDUITS. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL AND SHALL BE USED IN MECHANICAL AND ELECTRICAL PLANT ROOMS.
- MINIMUM SIZE OF GALVANIZED STEEL AND PVC CONDUIT SHALL BE 20mm DIAMETER.
- WHENEVER PVC WIRES USED WITHIN THE BUILDING SHALL RUN IN CONCEALED PVC CONDUITS. EXPOSED CONDUITS SHALL BE RIGID GALVANIZED STEEL.
- THE WORK REPRESENTED ON THIS DRAWING HAS BEEN COORDINATED WITH ALL DISCIPLINES/SUB CONTRACTORS AND OTHER AFFECTED DISCIPLINES/CONTRACTORS.
- HEAT EXCHANGER ROOM ELECTRICAL LAYOUT SHALL BE COORDINATED WITH QATAR COOL.
- FOR REFERENCE DRAWING POWER LAYOUT REFER TO DRAWING NO. EP-04-501A.
- FOR REFERENCE DRAWING HOME AUTOMATION RISER DIAGRAM REFER TO DRAWING NO. EP-04-509.C NO. EP-04-510.A.
- FOR REFERENCE DRAWING POWER LEGEND REFER TO DRAWING NO. E-04-02.
- FOR REFERENCE DRAWING POWER NOTES AND ABBREVIATION REFER TO DRAWING NO. E-04-03.
- FOR REFERENCE DRAWING POWER CABLE LEGEND REFER TO DRAWING NO. EP-04-508.C.

LEGEND :

	DISTRIBUTION BOARD (DB) AT 1800 mm FROM TOP OF PANEL TO A.F.F.L.
	APARTMENT TELECOMMUNICATION BOX AT 1800mm FROM TOP OF PANEL TO A.F.F.L.
	HOME AUTOMATION CONTROL PANEL AT 1800mm FROM TOP OF PANEL TO A.F.F.L.
	EMBEDDED PVC PIPE AT FLOOR SLAB - SIZES AS SHOWN
	EMBEDDED PVC PIPE AT CEILING SLAB - SIZES AS SHOWN
	13A 3P SINGLE SW SOCKET OUTLET AT 450mm ABOVE F.F.L. (WEATHERPROOF)
	13A 3P SINGLE SW SOCKET OUTLET AT 450mm ABOVE F.F.L. (WEATHERPROOF)
	SHAVER SOCKET DUAL VOLTAGE
	FOR KITCHEN HOOD (ABOVE FALSE CEILING)
	13A 3P TWIN SW SOCKET OUTLET AT 450mm ABOVE F.F.L.
	13A 3P TWIN SW SOCKET OUTLET AT 1200mm ABOVE F.F.L.
	13A 3P SINGLE SW SOCKET OUTLET AT 450mm ABOVE F.F.L.
	FOR DFCU
	COOKER CONTROL UNIT
	65mm Ø ROUND DRAW BOX
	ISOLATOR FOR E/W HEATER AT 450mm BELOW FALSE CEILING
	ONE WAY, ONE GANG, SINGLE POLE LIGHTING SWITCHES

ABBREVIATION:

MDB	MAIN DISTRIBUTION BOARD
DB	DISTRIBUTION BOARD
P. CABLE	CU/PVC CABLE IN CONDUIT
PVC	POLY VINYL CHLORIDE
DFCU	DUCTED FANCOIL UNIT
mm ²	SQUARE MILLIMETER
mmØ	MILLIMETER OF DIAMETER
CP	CONTROL PANEL

D	DATE	BY	CHECKED BY	APPROVED BY	DESCRIPTION
0	21-11-2006	C.MANCINI	SAMIR HAZZI	ATEF ZEIN	FIRST ISSUE FOR APPROVAL

EMPLOYER:

UDC
 United Development Company
 P.O. Box 7 528
 Doha, Qatar
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 F 974 435 5219

FOR ENGINEERS STAMP:

PROJECT MANAGEMENT & CONSULTANTS (PMC):

dar al-handasah shaair and partners
 DOHA - BEIRUT - CAIRO - LONDON

MAIN CONTRACTOR:

ACC
 CONTRACTOR:
 QATAR ACCABIAN Construction Co.
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 T 974 442 7316
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SUB CONTRACTOR:

QATAR TECHNICAL SUPPORT
 ELECTRO - MECHANICAL ENGINEERING
 P.O. BOX 23308 DOHA QATAR TEL: 48065111 FAX:4806546

PROJECT NAME:

THE PEARL
 THE PEARL - QATAR
 PARCELS P-04 & P-05

PARCEL 04
 TOWER - TYPICAL LEVEL 4 TO 11 - UNIT 301 - TYPE I

POWER LAYOUT

SIZE	DATE	ORIG	TRADE	LOC/BUILDING	FLOOR LEVEL	SERIAL NUMBER	REV
1:100	21-11-2006	0	5	C	7	T A L 411	8 3 1 9 0

Distribution Board
 DB 301A

LOCATION
 Apartment - Tower

CONTROLLED BY : 12WAY TPN 100A TP ON LOAD ISOLATOR

CKT. No.	PH	MCB (A)	WIRE SIZE (mm ²)	LOAD DESCRIPTION	CONTROLLED BY	LOAD (WATTS)				
						R	Y	B		
1	R	10	3x2.5	LIGHTS (DIMMER)	2*10+3*50+1*60+2*100	SWs	430			
	Y	10	3x2.5	LIGHTS (DIMMER)	6*50	IS4		300		
	B	10	3x2.5	LIGHTS (DIMMER)	1*18+4*50	IS3			218	
2	R	10	3x2.5	LIGHTS (ON/OFF)	5*50+2*60	IS1	370			
	Y	10	3x2.5	LIGHTS (ON/OFF)	6*50+1*300	IS5		600		
	B	10	3x2.5	LIGHTS	2*10+2*50+2*100	SWs			320	
3	R	10	3x2.5	LIGHTS	2*10+2*18+6*50+2*100	SWs	456			
	Y	10	3x2.5	LIGHTS	1*18+7*20+10*50+1*60+1*100	SWs		818		
	B	10	3x2.5	LIGHTS	2*60+1*100	SWs			220	
4	R	10	3x2.5	LIGHTS	1*18+2*60+1*100	SWs	238			
	Y	10	3x2.5	LIGHTS	2*60+1*100	SWs		220		
	B	10	3x2.5	LIGHTS	1*18+4*50	IS2			218	
5	R	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	2*2*100+3*1*100	SW. COMB	700			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	2*2*100+3*1*100	SW. COMB		700		
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	2*2*100+2*1*100	SW. COMB			600	
6	R	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	2*2*100+2*1*100	SW. COMB	600			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	3*2*100	SW. COMB		600		
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	3*2*100	SW. COMB			600	
7	R	20*	3x4	CONNECTION UNITS FOR DFCU	3*250+1*500+1*750	DP SW	2000			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	1*1*100	SWs		100		
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	1*1*100	SWs			100	
8	R	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET	2*1*100	SWs	200			
	Y	40*	2x16 + 1x6	COOKER CONTROL UNIT	1*5000	CCU			5000	
	B	15*	3x2.5	13A SW SOCKET OUTLET (MICROWAVE)	1*1000	SW. COMB			1000	
9	R	15*	3x2.5	20A JB + DPSW FOR WASHER	1*1000	DP SW	1000			
	Y	15*	3x2.5	13A SW SOCKET OUTLET (WALL OVEN)	1*1500	SW. COMB			1500	
	B	15*	3x2.5	13A SW SOCKET OUTLET (DISH WASHER)	1*750	SW. COMB			750	
10	R	15*	3x2.5	20A JB + DPSW FOR DRYER	1*1000	DP SW	1000			
	Y	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET (REF. GPO+M.DAMPER)	1*500+1*1*100+1*2*100	SW. COMB			800	
	B	30*	4x4 + 2x2.5	13A SW SOCKET OUTLET (KITCHEN HOOD+GPO)	1*2*100+1*1*250	SW. COMB			450	
11	R									
	Y	30*	4x10 + 1x6	30A TPN ISOLATOR FOR EW HEATER	1*6000	ISOL	2000	2000	2000	
	B									
12	R	10		SPARE						
	Y	10		SPARE						
	B	10		SPARE						
TOTAL CONNECTED LOAD (kW) - SUMMER							28.108	8994	12638	6476
TOTAL CONNECTED LOAD (kW) - WINTER							28.108	8994	12638	6476

*DENOTES MCB/ELCB COMBINED UNIT. ELCB SENSITIVITY = 30mA

