1 Ely Place London EC1N 6RY

Design and Access Statement May 2012

FAO Gideon Whittingham, Camden Planning Officer

1.0 Introduction

De Metz Forbes Knight Architects have been commissioned by the Hatton Garden Estate to provide architectural services in relation to the refurbishment of the fourth floor of 1 Ely Place, London, EC1N.

2.0 Site and Local area

The site forms the southern end of a terrace of commercial buildings that run along both Ely Place and Hatton Gardens. The principle elevation opens onto to the Holborn end of Charterhouse Street. The rear elevation encloses a lightwell on three sides which opens onto the rear of 6 Hatton Gardens, 5 Hatton Gardens and 7 Ely Place.

3.0 Existing buildings

The existing building dates from the early 1900s. The building is not listed but is situated within the Hatton Gardens Conservation Area. The External walls are load bearing masonry. The front elevation is elaborately decorated true to the period style. The rear elevation contrasts greatly and is very simple and plain.

The building has six floors including a mezzanine office adjacent to the double height space of a double height banking hall. The ground floor is currently occupied by Natwest bank, whilst all other floors are offices. This application only refers to the fourth floor.

The existing building has three entrances each onto separate streets, as follows:

- Ground floor bank is accessed from Charterhouse Street
- The upper floors are accessed from two stair cores, one accessed from Ely Place (principle entrance to the upper floor offices) and the other from Hatton Gardens (escape stair).

To the rear are two areas of flat roof formed by set backs to the rear elevation. The larger of the two is just below mezzanine level and the other is accessed from the second floor. The flat roof at mezzanine level is fitted with metal bar cage which provides security to the bank below.

4.0 Proposed Scheme

The proposal retains the existing building and proposed works as approved in approved in application 2012/0885/P and includes:

- 01. Installation of condenser unit to serve 4th floor, located in external plant area as approved in 2012/0885/P (please refer to Appendix A)
- 02. Installation of condenser unit to serve 3rd floor, located in external plant area as approved in 2012/0885/P (please refer to Appendix A)

5.0 Access

No change to the buildings access is proposed. This currently consists of level entrance door thresholds and a lift is provided to all floors.

7.0 Site Photographs

- A: View of external walkway
- B: External elevation
- $\ensuremath{\textbf{C}}$: View of external walkway from roof



8.0 APPENDIX A

	FICATIONS		F P	DAT
Model		/	PURY-P200YJM-A(-BS)	PURY-P250YJM-A(-B\$)
Power source	· · · · ·		3-phase 4-wire 380-400-415V 50/60Hz	3-phase 4-wire 380-400-415V 50/60Hz
Cooling capacity		1 KW	22.4	28.0
(Nominal)		1 kcal/h	19,300	24,100
		1 BTU/h	76,400	95,500
	Power input	kW	5.18	7.05
	Current input	A	87.8.3-8.0	11.9-11.3-10.8
Temp, range of	COP	kW/kW W.B.	4.32	3.97
cooling	*3 Outdoor	D.B.	15.0~24.0*C(59~75*F) -5.0~46.0*C(23~115*F)	15.0-24.0°C(59-75°F)
Heating capacity	ALC: LANDENDER	2 kW	25.0	-5.0-46.0°C(23-115°F) 31.5
(Nominal)		2 kcal/h	21,500	27,100
		2 BTU/h	85,300	107,500
	Power input	kW	5.69	7.32
	Current input	A	9.6-9.1-8.7	12.3-11.7-11.3
	COP	kW / kW	4.39	4.30
Temp, range of	Indoor	O.B.	15.0~27.0°C(59~81"F)	15.0~27.0*C(59~81*F)
heating	*3 Outdoor	W.B.	-20.0~15.5°C(-4-60°F)	-20.0~15 5°C(-4~60°F)
Indoor unit connectable	Total capacity	- 10	50-150 % of cutdoor unit capacity	50-150 % of outdoor unit capacity
	Model / Quantity (measured in anechoic room	dB can	P15-P250 / 1-20 56	P15-P250 / 1-25
	(measured in anechoic room	the second se	76	57
Refrigerant	High pressure	mm (in.)	15.88(5/8) Brazed	19.05(3/4) Brazed
piping diameter	Low pressure	mm (in.)	19.05(3/4) Brazed	22.2(7/8) Brazed
FAN	Type x Quantity	1	Propeller fan x 1	Propeller fan x 1
	Air flow rate	m ³ / min	185	185
		U/s	3,083	3,083
		cfm	6,532	6,532
	Control, Driving mecha		Inverter-control, Direct-driven by motor	Inverter-control, Direct-driven by motor
	*4 External static press.	kW	0.92 x 1	0.92 x 1
Compressor			0 Pa (0 mmH ₂ O)	0 Pa (0 mmH ₂ O)
Compressor	Type x Quantity Manufacture		Inverter scroll hermetic compressor AC&R Works, MITSUBISHI ELECTRIC CORPORATION	Inverter scroll hermetic compressor AC&R Works, MITSUBISHI ELECTRIC CORPORATIO
	Starting method		Inverter	Inverter
	Motor output	kW	5.4	6.8
	Case heater	kW	0.035(240 V)	0.035(240 V)
	Lubricant	1	MEL32	MEL32
External finish		100	Pre-coated galvanized steel sheets (+powder coaling for -BS	Pre-coaled galvanized steel sheets (+powder coaling for -
			type)	type)
External dimension Ha	MGD	mm	<munsell 1="" 8="" or="" similar="" sy=""></munsell>	<munsell 1="" 5y="" 8="" or="" similar=""></munsell>
CARDING GING ISION FIAN	(WAD	in.	1,710(1,650 without legs) x 920 x 760 67-3/8(65 without legs) x 36-1/4 x 29-15/16	1.710(1,650 without legs) x 920 x 760
B	lor -	I		67-3/8(65 without legs) x 36-1/4 x 29-15/16 High pressure sensor, High pressure switch at 4.15MPa (6
Protection devices	High pressure protection	n	psi)	psi)
	Inverter circuit (COMP. / FAN)		Over-heat protection, Over-current protection	Over-heat protection, Over-current protection
			Over-heat protection	Over-heat protection
	Compressor		Thermal switch	Thermal switch
	Fan motor			
Refrigerant	Fan motor Type x original charge		R410A x 9.5kg (21lbs)	R410A x 9.5kg (21lbs)
12	Fan motor	lko (lho)	R410A x 9.5kg (21lbs) Indeer LEV and BC controller	Indoor LEV and BC controller
Refrigerant Nel weight Heat exchanger	Fan motor Type x original charge	kg (lbs)	R410A x 9.5kg (21lbs) Indoor LEV and BC controller 240(530)	Indoor LEV and BC controller 240(530)
Nel weight	Fan motor Type x original charge Control	kg (Ibs)	R410A x 9.5kg (21lbs) Indeer LEV and BC controller	Indoor LEV and BC controller
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Nel weight Heat exchanger HIC circuit (HIC: Heat	Fan motor Type x original charge Control inter-Changer)	kg (lbs)	R410A x 9.5kg (21lbs) Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube	Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube
Nel weight Heat exchanger HIC circuit (HIC: Heat Defrosting method	Fan motor Type x original charge Control inter-Changer)	kg (lbs)	R410A x 9.5kg (21lbs) Indeor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle)	Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle)
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Nel weight Heat exchanger HIC circuit (HIC: Heat Defrosting method Drawing Standard attachment	Ean motor Type x original charge Control inter-Changer) External Wiring	kg (lbs)	R410A x 9.5kg (21lbs) Indeor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WXC094G046 WYN 80-7352 Installation Manual	Indoor LEV and BC controller 240(530) Self-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G046 WYN B0-7952 Installation Manual Refrigerant corm, pipe
Net weight Heat exchanger HIC circuit (HIC: Heat Defrosting method Drawing	Fan motor Type x original charge Control inter-Changer) External Wring Document	kg (lbs)	R410A x 9.5kg (21bs) Indeor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKOB45046 WYN 80-7352 Installation Manual Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R180-J1	Indoor LEV and BC controller 240(330) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refingerant cycle) WKD94G046 WYN 80-7952 Installation Manual Refigerant com. pipe Joint CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1
Nel weight Heat exchanger HIC circuit (HIC: Heat Defrosting method Drawing Standard attachment	Fan motor Type x original charge Control inter-Changer) External Wring Document	kg (Ibs)	R410A x 9.5kg (21lbs) Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WXD94G046 WYN 80-7852 Installation Manual Jeint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R180-J1 BC controller. CMB-P104,105,106,108,1010,1013,1016V-G1	Indoor LEV and BC controller 240(530) Sall-resistant cross fin & copper tube Auto-definost mode (Reversed refingerant cycle) WKD94G046 WYN B0-7952 Installation Manual Refingerant corm. pipe Joint: CMY-Y1025-G2,CMY-Y102L-G2,CMY-R160-J1 BC controller; CMB-P104,105,106,108,1010,1013,1016V-
Nel weight Heat exchanger HIC circuit (HIC: Heat Defrosting method Drawing Standard attachment	Fan motor Type x original charge Control inter-Changer) External Wring Document	kg (Ibs)	R410A x 9.5kg (21lbs) Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G046 WYK B0-7852 Installation Manual Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R180-J1 BC controller: CMB-P104,105,106,108,1010,1013,1016V-G1 Main BC controller: CMB-P108,1010,1013,1016V-G1	Indoor LEV and BC controller 240(530) Sell-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD940546 WYN B0-7952 Institution Manual Refrigerant corn. pipe Joint: CMY-Y1025-62,CMY-Y102L-62,CMY-R160-J1 BC controller: CMB-P108,1010,1013,1016V-GA1
Net weight Heat exchanger HIC circuit (HIC: Heat Defrosting method Drawing Standard attachment Optional parts	Fan motor Type x original charge Control inter-Changer) External Wring Document	kg (lbs)	R410A x 9.5kg (21bs) Indeor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WXD94G046 WYN 80-7952 Installation Manual Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,1010,1013,1016V-G1 Main BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1	Indoor LEV and BC controller 240(530) Sall-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G046 WYN B0-7952 Installosion Manual Refrigerant conn. pipe Joint: CMY-Y1025-G2,CMY-Y1024-G2,CMY-R160-J1 BC controller: CMB-P104,105,1010,1013,1016V-AM Main BC controller: CMB-P103,1010,1013,1016V-AH Sub BC controller: CMB-P104,108V-G81,CMB-P1016V-H
Nel weight Heat exchanger HIC circuit (HIC: Heat Defrosting method Drawing Standard attachment	Fan motor Type x original charge Control inter-Changer) External Wring Document	kg (lbs)	R410A x 9.5kg (21bs) Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G046 WYN 60-7552 Installation Marual Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,106, 1013,1016V-G1 Main BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Sub BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Details on foundation work, duct work, insulation work, electral wing, power source switch, and other times shall be re-	Indoor LEV and BC controller 240(530) Sall-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G046 WYN 80-7952 Installistic MAnual Refrigerant corm. pipe Joint CMY-Y1025-G2,CMY-Y102L-G2,CMY-R160-J1 BC controller: CMB-P104,105,1010,1013,1016V-M Main BC controller: CMB-P104,108V-GB1,CMB-P1016V-H Sub BC controller: CMB-P104, 108V-GB1,CMB-P1016V-H Details on foundation work, duct work, insudaton work, elec ol wing, power source switch, and other items shall be or
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Net weight Heat exchanger HIC arcout (HIC: Heat Defrosting method Drawing Standard attachment Optional parts Remarks Notes : 1.Nominal cooling conc Indoor.27*CDB/19*C Pipe length: 7.5m(24)	Fan motor Type x original charge Control inter-Changer) External Wiring Document Accessory Sitions(subject to JIS 88615- WB(51:7): FD8766*FWB), Outo	1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1) 1	R410A x 9.5kg (21bs) Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD946046 WYN 80-7852 Installation Manual Joint: CMY-Y102S-G2.CMY-Y102L-G2.CMY-R160-J1 BC controller: CMB-P104,105,106,100,1013,1016V-G31 Main BC controller: CMB-P104,1004/-GB1.CMB-P1016V-HB1 Sub BC controller: CMB-P104,1004/-GB1.CMB-P1016V-HB1 Sub BC controller: CMB-P104,1004/-GB1.CMB-P1016V-HB1 Details on flowalation work, electri- cal wiring, power source switch, and other items shall be re- lerred to the Installation farvual. Due to continuing improvement, above specifications may be subject to change without notice.	Indoor LEV and BC controller 240(530) Self-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD946046 WYN B0-7952 Instellation Manual Refrigerant corm. pipe Joint CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-JT BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P108,1010,1013,1016W-D04 Details on foundation work, duct work, insulation work, elec cal wing, power source switch, and other items shall be n forred to the Installation Manual. Due to continuing improvement, above specifications may subject to change without notice. Unit converter koal = KW x 860 BTU/h = kW x 3,412
Net weight Heat exchanger HIC arcout (NIC: Heat Defrosting method Drawing Standard attachment Optionel parts Optionel parts Remarks Notes : 1.Nominal cooling corre Indoor.27*CDB(19*C Pipe length: .5m(24- 2.Nominal trading corre Indoor.27*CDB(19*C) Indoor.27*CDB(19*C)	Fan motor Type x original charge Control inter-Changer) External Wring Document Accessory itions(subject to JIS 88615- WB(81*7CD#66*FWB), Outo 9161*7, ICD#66*FWB), Outo 9161*7, ICD#66*FWB, Outo	1) loor.35°CDB(00h,) -1) -1) 45°FCDB(43°	R410A x 9.5kg (21bs) Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G046 WYK B0-7852 Installation Manual Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R180-J1 BC controller: CMB-P104,105,106,106,1010,1013,1016V-G1 Main BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Details on foundation word, duct work, insulation work, electri- cal wiring, power source switch, and other lems shall be re- lerred to the Installation Manual. Details on foundation word, duct work, insulation work, electri- cal wiring, power source switch, and other lems shall be re- lerred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice.	Indoor LEV and BC controller 240(530) Sell-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G946 WYN B0-7952 Installation Manual Refrigerant conn. pipe Joint CMV-Y1025-G2,CMY-Y102L-G2,CMY-R160-J5 BC controller: CMB-P104,108V-G81,CMB-P1016V-H Main BC controller: CMB-P104,108V-G81,CMB-P1016V-H Details on foundation work, duct work, insulation work, elec dwing, power source switch, and other items shall be of fored to the Installation Manual, Due to controller: CMB-P104, 108V-G81, CMB-P1016V-H Details on foundation work, duct work, insulation work, elec dwing, power source switch, and other items shall be of fored to the Installation Manual, Due to continuing improvement, above specifications may subject to change without notice. Unit converter koal = kW x 860 BTU/h = kW x 3,412 cfm = m ² /min x 35.31
Net weight Heat exchanger HIG circuit (HIC: Heat Defrosting method Drawing Standard attachment Optional parts Remarks Notes : 1. Nominal cooling corre Indoor.27*CDB/19*C Pipe length.7.5m(24 - Nominal training con Indoor.27*CDB/19*C	Fan motor Type x original charge Control Inter-Changer) External Wring Document Accessory Stions(subject to JIS 88815- WB(81*FDB/66*FWB), Out 9/161, Level difference-0m dimons(subject to JIS 86815- DB), Outdoor.7*CDB/6*CWB 9/161, Level difference.0m	1) foor.35°CDB((0ft.) -1) 5(45°FDB/43° (0ft.)	R410A x 9.5kg (21bs) Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD94G046 WYK B0-7852 Installation Manual Joint: CMY-Y102S-G2,CMY-Y102L-G2,CMY-R180-J1 BC controller: CMB-P104,105,106,106,1010,1013,1016V-G1 Main BC controller: CMB-P104,108V-GB1,CMB-P1016V-HB1 Details on foundation word, duct work, insulation work, electri- cal wiring, power source switch, and other lems shall be re- lerred to the Installation Manual. Details on foundation word, duct work, insulation work, electri- cal wiring, power source switch, and other lems shall be re- lerred to the Installation Manual. Due to continuing improvement, above specifications may be subject to change without notice.	Indoor LEV and BC controller 240(530) Salt-resistant cross fin & copper tube Auto-defrost mode (Reversed refrigerant cycle) WKD946046 WYN 80-7952 Installation Manual Refrigerant corm. pipe Joint CMY-Y102S-G2,CMY-Y102L-G2,CMY-R160-J1 BC controller: CMB-P104,105,106,1010,1013,1016V- Main BC controller: CMB-P108,1010,1013,1016V-GA1 Sub BC controller: CMB-P104,105,106,1010,1013,1016V- Details on foundation work, duct work, insulation work, ele cal wing, power source switch, and other items shall be r forred to the installation Manual. Due to continuing improvement, above specifications may subject to change without notice. Unit converter koal = KW x 860 BTU/h = kW x 3,412

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