SMALL POWER & DATA LEGEND

- SINGLE UNSWITCHED SOCKET OUTLET.
- SINGLE SWITCHED SOCKET OUTLET 'CL' DENOTES CLEANERS SOCKET OUTLET.
- 2 DOUBLE SWITCHED SOCKET OUTLET.
- T1 SINGLE TELEPHONE OUTLET.
- * SWITCHED FUSED CONNECTION UNIT.
- * UNSWITCHED FUSED CONNECTION UNIT.
- FLEX OUTLET FRONT PLATE.

CONTAINMENT LEGEND

- SPLIT LOAD FOR LIGHTING & POWER SUB-METERED TP&N DISTRIBUTION BOARD.
- H.D.H.C. COPPER EARTH BAR.
- CONTAINMENT RISE/DROP.
- SWITCH PANEL.
- LOCKABLE ROTARY ISOLATOR SIZED AS SHOWN.
- REGIONAL ELECTRICITY COMPANY (R.E.C.) CABLE/SERVICE HEAD.
- M REGIONAL ELECTRICITY COMPANY (R.E.C.) METER OR UTILITY SUB-METER.
- BT BT OPENREACH DISTRIBUTION POINT.
- STEEL CABLE BASKET FOR L.V. FINAL CIRCUIT CABLING IN FLOOR VOID.
- STEEL CABLE TRAY AT H/L FOR LIGHTING & POWER FINAL CIRCUIT CABLING.

MISCELLANEOUS LEGEND

- AH 300x300mm ACCESS HATCH IN PLASTERBOARD CEILING.

UNDERFLOOR SMALL POWER LEGEND

- ELECTRAK 25 LOW NOISE/CLEAN EARTH SYSTEM (GREEN) 2.4m LENGTH 63A UNDERFLOOR POWER TRACK C/W FLOOR FIXING BRACKETS.
- EFU ELECTRAK 25 END FEED UNIT.
- ELECTRAK 25 32A UNFUSED 5m TAP-OFF UNIT PRE-WIRED TO ELECTRAK FLOOR BOX OR INTERSOC-R DESK POWER MODULE.
- CL ELECTRAK 169mmø GREY PLASTIC RCD POWER GROMMET CONTAINING 13A RCD SOCKET PRE-WIRED WITH 5m UNFUSED TAP-OFF.
- FB1 ELECTRAK 25 PRE-WIRED 5m TAP-OFF & 3 COMPARTMENT 230mm x 366mm FLOOR BOX CONTAINING 2No. RCD PROTECTED TWIN SWITCHED SOCKET OUTLETS & ANGLED PUNCH PLATE FOR 4No. CAT 6 RJ45 SOCKETS (37mm x 22mm CUT-OUTS).

GENERAL LEGEND

L/L	ITEM MOUNTED AT LOW LEVEL.
H/L	ITEM MOUNTED AT HIGH LEVEL.
C/V	ITEM MOUNTED IN CEILING VOID.
R/V	ITEM MOUNTED IN ROOF VOID.
F/V	ITEM MOUNTED IN FLOOR VOID.
W/T	ITEM MOUNTED AT WORKTOP LEVEL.
WP	DENOTES WEATHERPROOF IP65 TYPE SUITABLE FOR EXTERNAL USE.
EX	DENOTES EXISTING TO BE RETAINED.
R	DENOTES EXISTING TO BE RELOCATED.
R.T.A.	RISE TO ABOVE.
R.F.B.	RISE FROM BELOW.
D.F.A.	DROP FROM ABOVE.
D.T.B.	DROP TO BELOW.

ABBREVIATIONS LEGEND

BC – FOR BC CONTROLLER AT HIGH LEVEL OR IN CEILING VOID.
D – DISABLED ALARM MOUNTED IN CEILING VOID.
DA – DOOR ACCESS CONTROL IN CEILING VOID.
EF – EXTRACT FAN IN CEILING VOID.
FA – FIRE ALARM
FCU – MECHANICAL FAN COIL UNIT IN CEILING VOID.
HD – HAND DRYER MOUNTED AT HIGH LEVEL WITH FLEX OUTLET PLATE BEHIND HAND DRYER FOR FINAL CONNECTION.
HP – HEAT PUMP UNIT AT LOW LEVEL.
IA – INTRUDER ALARM MOUNTED IN CEILING VOID.
PH – ELECTRIC PANEL HEATER AT LOW LEVEL.
WH – WATER HEATER AT LOW LEVEL.

FIRE ALARMS LEGEND

- FA RECESSED MOUNTED WITH LOCKABLE COVER SCREEN MAIN FIRE ALARM PANEL.
- MANUAL CALL POINT.
- IU INTERFACE UNIT. 'DA' DENOTES DOOR ACCESS CONTROL IN CEILING VOID.
- S OPTICAL SMOKE DETECTOR.
- S SB OPTICAL SMOKE DETECTOR C/W SOUNDER BASE.
- SB S OPTICAL SMOKE DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- H HEAT DETECTOR.
- H SB HEAT DETECTOR C/W SOUNDER BASE.
- SB H HEAT DETECTOR C/W SOUNDER BASE & FLASHING BEACON.
- S OPTICAL SMOKE DETECTOR MOUNTED IN CEILING VOID WITH REMOTE INDICATOR MOUNTED DIRECTLY BELOW.
- REMOTE INDICATOR UNIT.
- FLASHING BEACON.
- ELECTRONIC SOUNDER.
- ELECTRONIC SOUNDER & FLASHING BEACON.

INTRUDER ALARM LEGEND

- S INTRUDER ALARM EQUIPMENT
- DOOR/WINDOW CONTACT.
- K KEYPAD.
- DUALTECH DETECTOR.
- SOUNDER & FLASHING BEACON.

ACCESS CONTROL LEGEND

- AC ACCESS CONTROL EQUIPMENT.
- ELECTRONIC KEYPAD/PROXIMITY READER/SWIPE CARD READER FOR DOOR RELEASE.
- GREEN BREAKGLASS.
- GREEN REQUEST TO EXIT BUTTON.
- MAGLOCK/SHEAR LOCK/SOLENOID LOCK.
- DC DOOR CONTROLLER IN CEILING VOID WITH ACCESS HATCH ADJACENT.
- I COLOUR VIDEO & VOICE INTERCOM.
- DH COLOUR VIDEO & VOICE DOOR INTERCOM HANDSET.
- DR REMOTE DOOR RELEASE BUTTON.

DISABLED WC ALARM LEGEND

- D RECESSED MOUNTED WITH LOCKABLE COVER SCREEN DISABLED WC ALARM INDICATOR PANEL.
- D E DISABLED WC EMERGENCY PULL CORD.
- R DISABLED WC RESET BUTTON.
- D DISABLED WC WALL MOUNTED REPEAT ALARM LAMP UNIT.

DISABLED REFUGE LEGEND

- DR RECESSED MOUNTED WITH LOCKABLE COVER SCREEN DISABLED REFUGE ALARM PANEL.
- DRP DISABLED REFUGE ALARM CALL POINT.

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CIBSE Certification Ltd. — Registration No. 00443
International Accreditation Board

REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.	J.P.H.	JAN 16
P	ISSUED FOR COMMENT	B.W.	J.P.H.	JAN 16

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e admin@reds.eu.com

PROJECT: ALBERT SQUARE PORTFOLIO, MANCHESTER
CLIENT: OBI PROPERTY
TITLE: ELECTRICAL SERVICES
ELECTRICAL SERVICES LEGEND DRAWING

SCALE	ORIGINAL SIZE	DATE
N.T.S.	A3	JAN 16
DRAWN: W.Holden	DESIGNED: B.James	CHECKED: J.Hellawell

DRAWING NUMBER: M0618/E/LEGEND
REVISION: T

NOTES

1.0 THIS DRAWING IS INDICATIVE ONLY & REPRESENTS DESIGN INTENT & CLIENTS REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL DETAILED DESIGN & PLANT/SERVICES SELECTIONS.

2.0 ALL SERVICES ARE TO BE FULLY COORDINATED BETWEEN BOTH MECHANICAL & ELECTRICAL SUB-CONTRACTORS THROUGHOUT THE DESIGN & CONSTRUCTION WORKS.

3.0 THE ELECTRICAL SUB-CONTRACTOR IS TO INCLUDE FOR ALL POWER SUPPLIES FOR ALL FIXED EQUIPMENT AS REQUIRED.

4.0 NEW CABLE CONTAINMENT TO BE PROVIDED AS REQUIRED TO SUIT THE PROPOSED LAYOUTS & MODIFIED & NEW SERVICES INSTALLATIONS.

5.0 FINAL SETTING OUT OF ALL EQUIPMENT & DEVICES TO BE AGREED WITH ARCHITECT AS PART OF DETAILED DESIGN PROCESS.

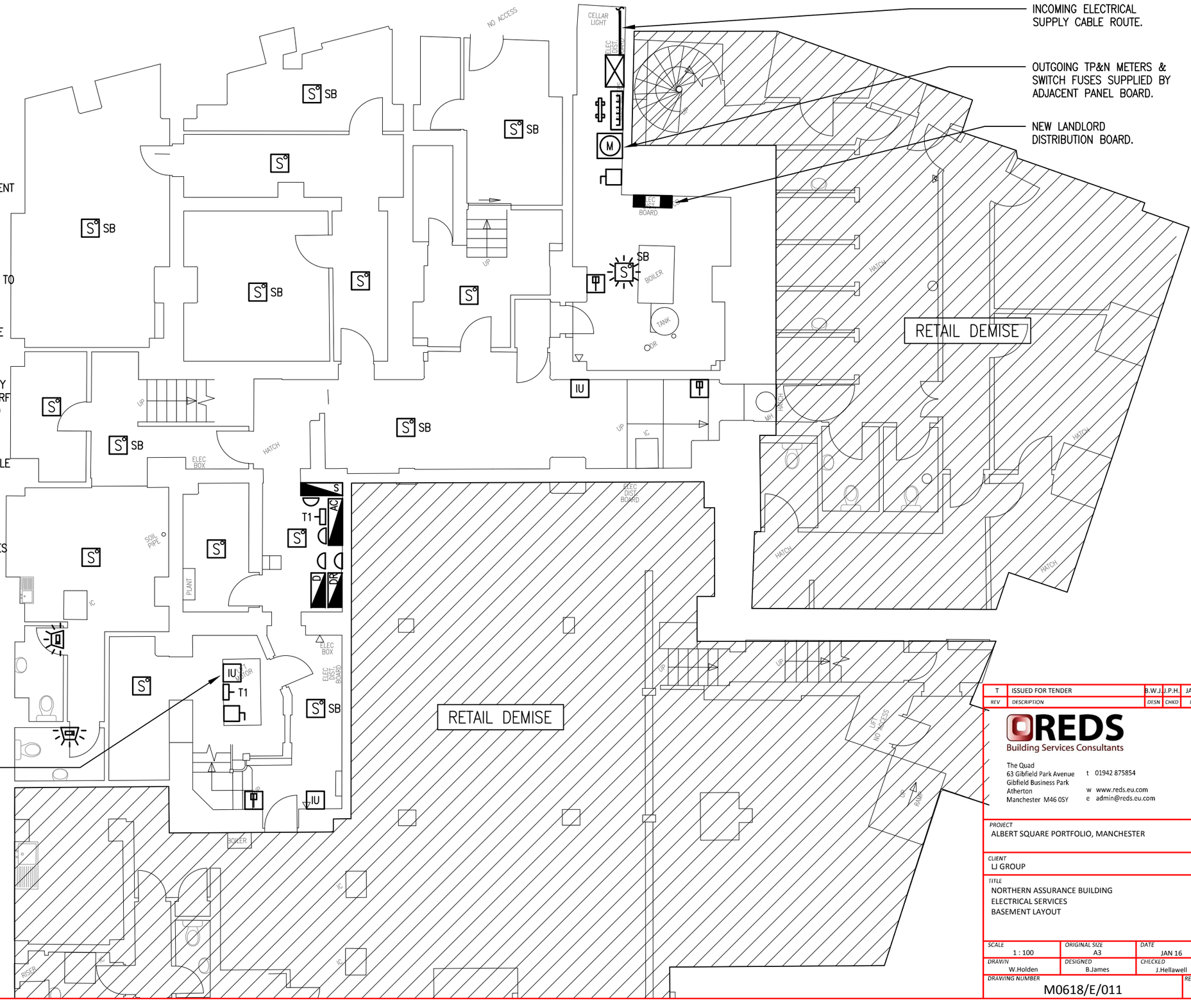
7.0 ALL SERVICES SHOWN ARE NEW UNLESS OTHERWISE INDICATED.

8.0 NEW SPLIT LOAD FOR LIGHTING & POWER SUB-METERED TP&N DISTRIBUTION BOARD & UTILITY SUB-METER TO SUPPLY TENANTED OFFICE AREA. VRF SYSTEM EXTERNAL CONDENSER INSTALLED AT THIRD FLOOR LEVEL TO BE SUPPLIED FROM THIS DISTRIBUTION BOARD.

9.0 HIGH LEVEL LIGHTING & POWER FINAL CIRCUIT CABLE TRAY CONTAINMENT TO BE PROVIDED ROUTED ADJACENT TO REFRIGERANT PIPEWORK TRAY.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.J	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
BASEMENT LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN	DESIGNED	CHECKED
W.Holden	B.James	J.Hellawell

DRAWING NUMBER
M0618/E/011

REVISION
T

NOTES

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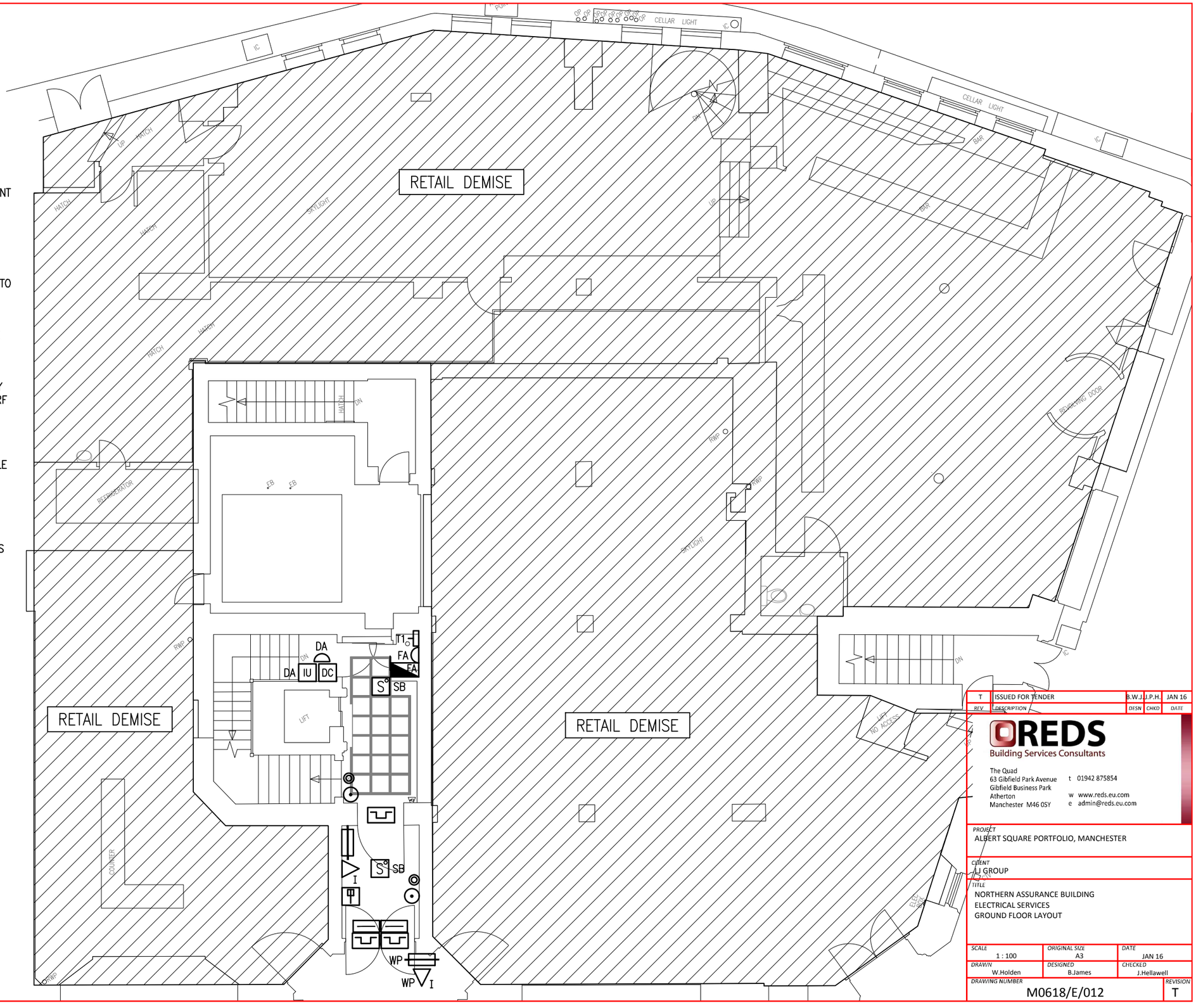
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8.0 NEW SPLIT LOAD FOR LIGHTING & POWER SUB-METERED TP&N DISTRIBUTION BOARD & UTILITY SUB-METER TO SUPPLY TENANTED OFFICE AREA. VRF SYSTEM EXTERNAL CONDENSER INSTALLED AT THIRD FLOOR LEVEL TO BE SUPPLIED FROM THIS DISTRIBUTION BOARD.

9.0 HIGH LEVEL LIGHTING & POWER FINAL CIRCUIT CABLE TRAY CONTAINMENT TO BE PROVIDED ROUTED ADJACENT TO REFRIGERANT PIPEWORK TRAY.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.J	J.P.H	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
GROUND FLOOR LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN	DESIGNED	CHECKED
W.Holden	B.James	J.Hellawell

DRAWING NUMBER: M0618/E/012
REVISION: T

NOTES

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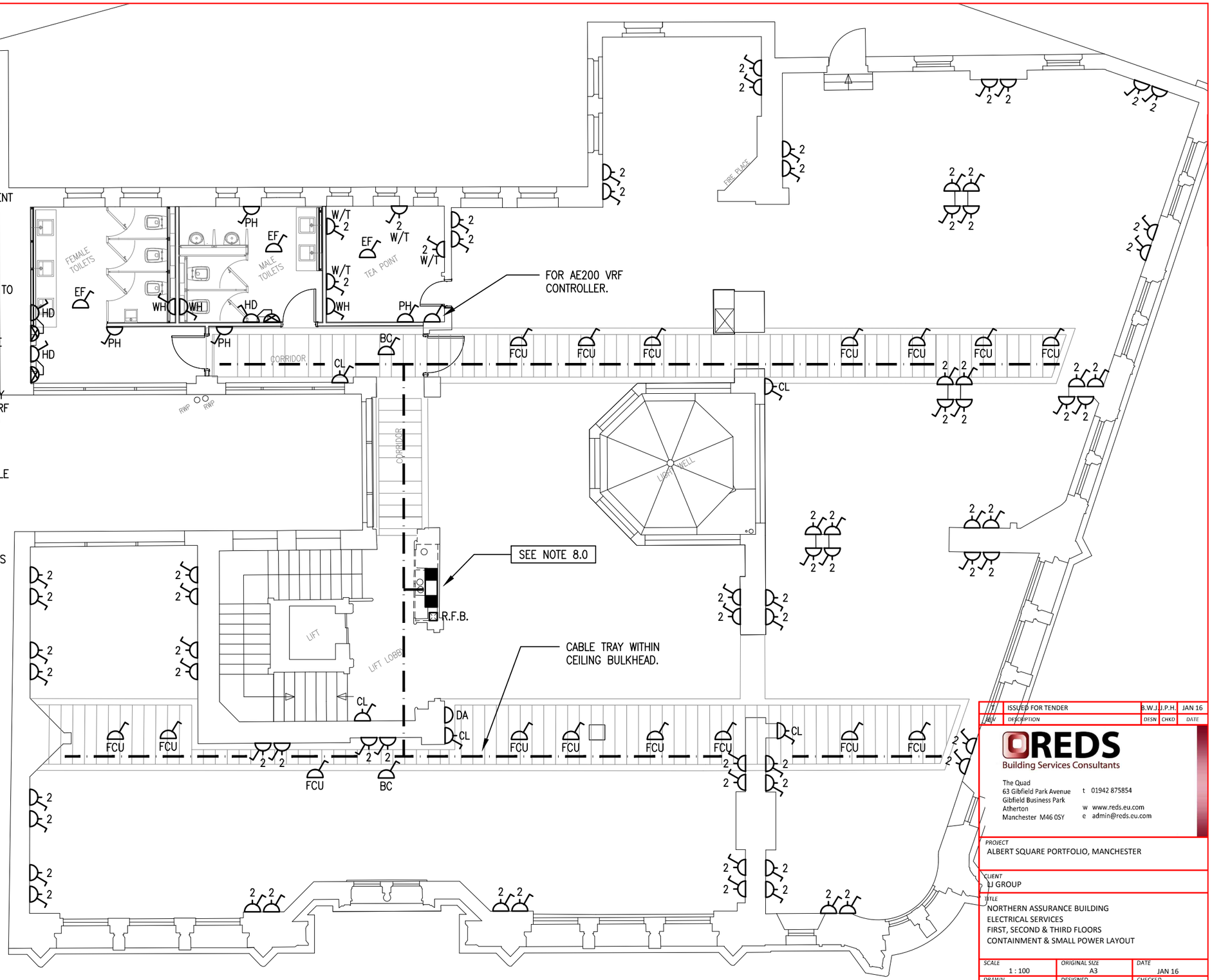
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9.0 HIGH LEVEL LIGHTING & POWER FINAL CIRCUIT CABLE TRAY CONTAINMENT TO BE PROVIDED ROUTED ADJACENT TO REFRIGERANT PIPEWORK TRAY.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.J.	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
FIRST, SECOND & THIRD FLOORS
CONTAINMENT & SMALL POWER LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN	DESIGNED	CHECKED
W.Holden	B.James	J.Hellawell

DRAWING NUMBER: M0618/E/211
REVISION: T

NOTES

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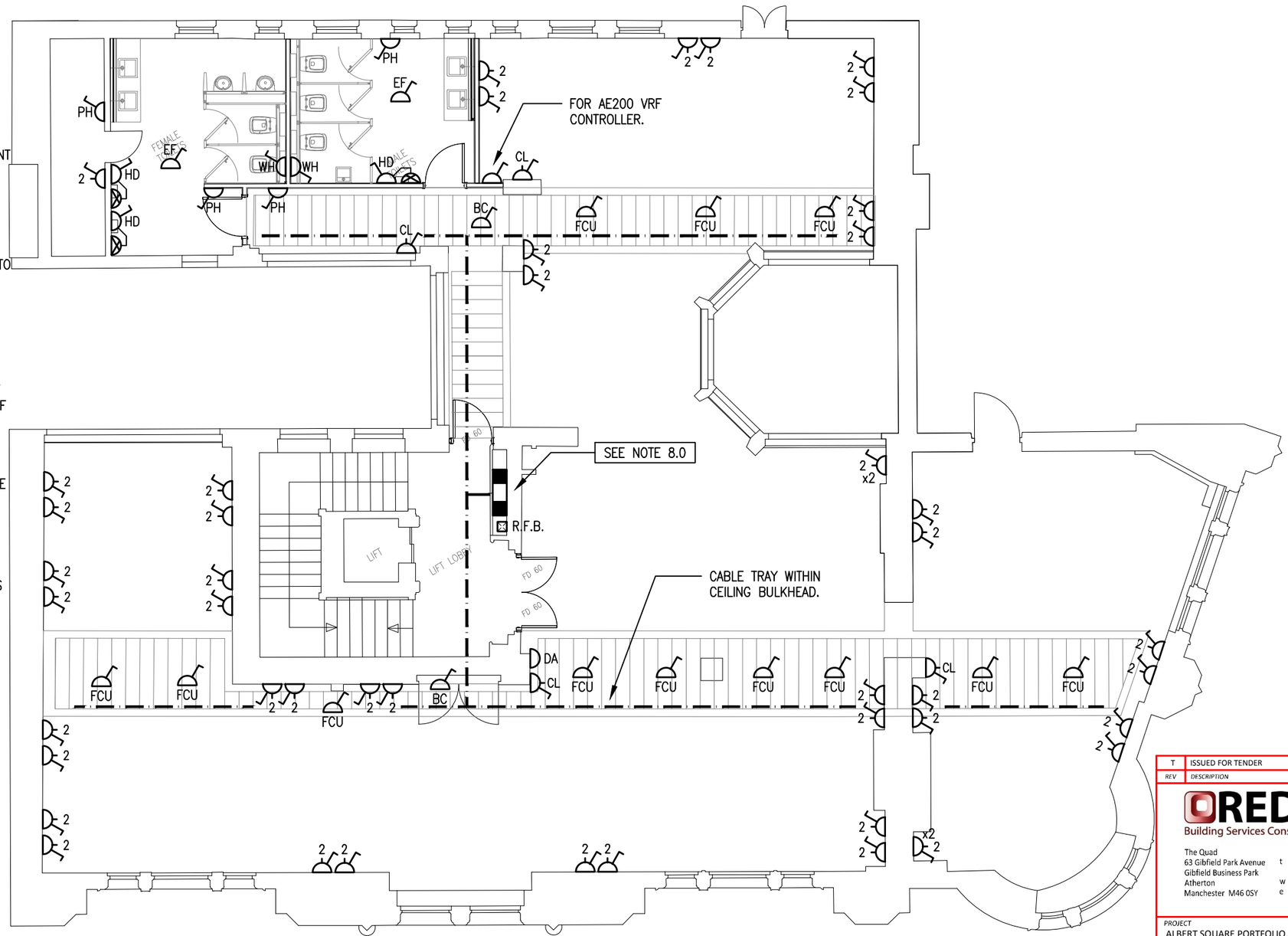
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9.0 HIGH LEVEL LIGHTING & POWER FINAL CIRCUIT CABLE TRAY CONTAINMENT TO BE PROVIDED ROUTED ADJACENT TO REFRIGERANT PIPEWORK TRAY.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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CIBSE Certification Ltd.
International Accreditation Board Registration No. 00443

REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.J.	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
FOURTH FLOOR
CONTAINMENT & SMALL POWER LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN	DESIGNED	CHECKED
W.Holden	B.James	J.Hellawell

DRAWING NUMBER
M0618/E/212

REVISION
T

NOTES

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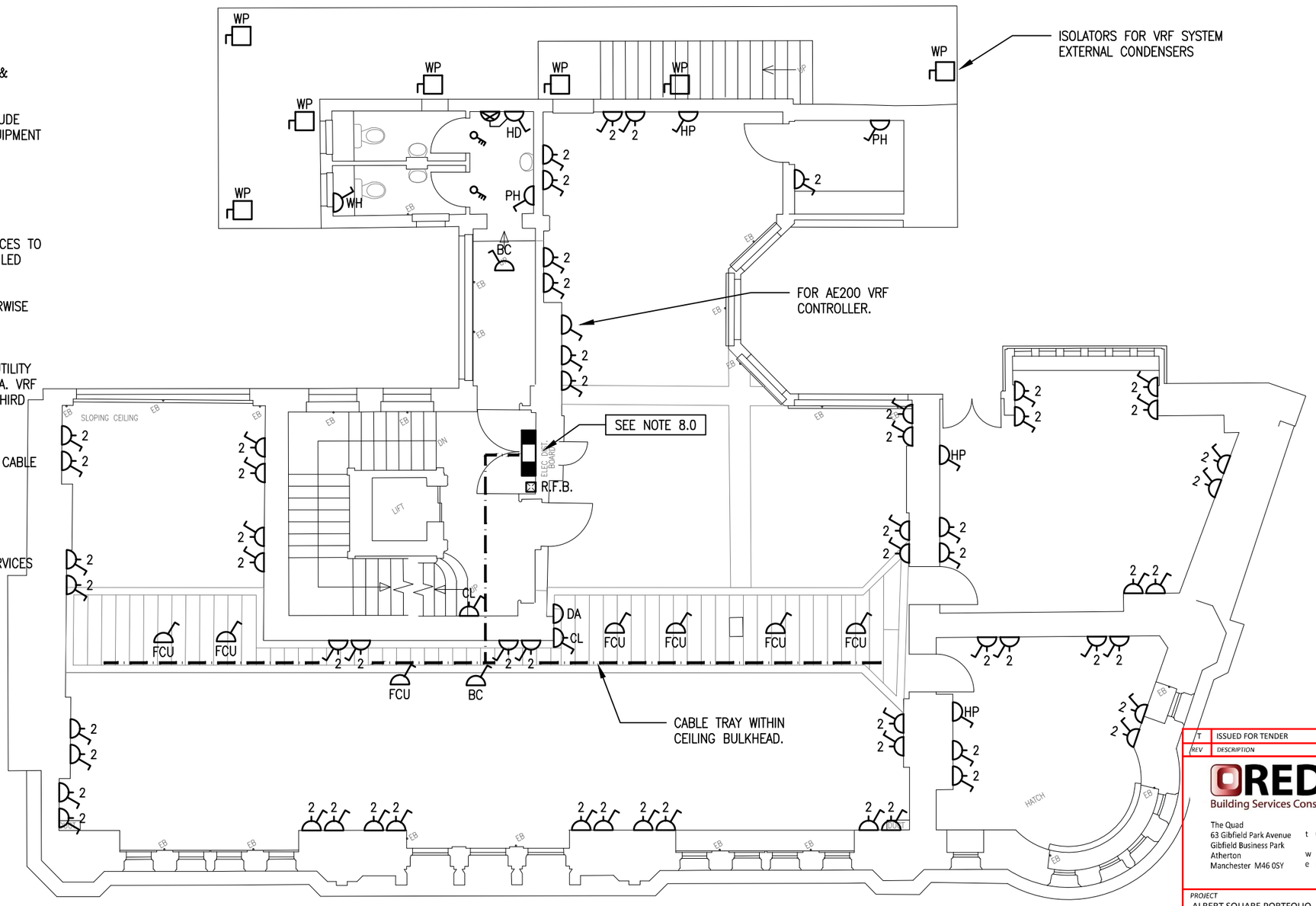
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9.0 HIGH LEVEL LIGHTING & POWER FINAL CIRCUIT CABLE TRAY CONTAINMENT TO BE PROVIDED ROUTED ADJACENT TO REFRIGERANT PIPEWORK TRAY.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.J.	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
FIFTH FLOOR
CONTAINMENT & SMALL POWER LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN: W.Holden	DESIGNED: B.James	CHECKED: J.Hellawell

DRAWING NUMBER: M0618/E/213
REVISION: T

NOTES

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4.0 NEW CABLE CONTAINMENT TO BE PROVIDED AS REQUIRED TO SUIT THE PROPOSED LAYOUTS & MODIFIED & NEW SERVICES INSTALLATIONS.

5.0 FINAL SETTING OUT OF ALL EQUIPMENT & DEVICES TO BE AGREED WITH ARCHITECT AS PART OF DETAILED DESIGN PROCESS.

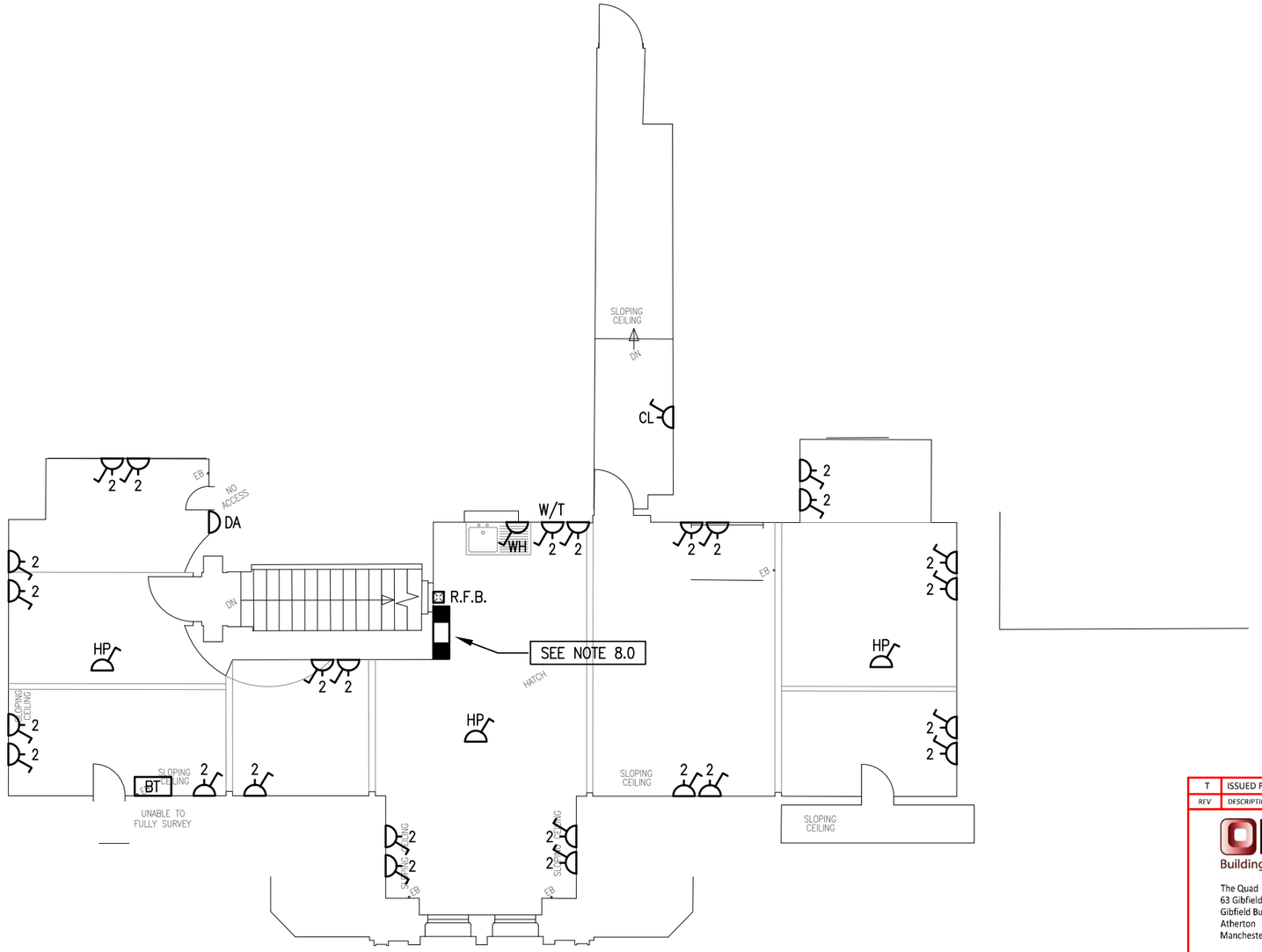
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9.0 HIGH LEVEL LIGHTING & POWER FINAL CIRCUIT CABLE TRAY CONTAINMENT TO BE PROVIDED ROUTED ADJACENT TO REFRIGERANT PIPEWORK TRAY.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.J.	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
SIXTH FLOOR
CONTAINMENT & SMALL POWER LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN: W.Holden	DESIGNED: B.James	CHECKED: J.Hellawell

DRAWING NUMBER: M0618/E/214
REVISION: T

NOTES

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2.0 ALL SERVICES ARE TO BE FULLY COORDINATED BETWEEN BOTH MECHANICAL & ELECTRICAL SUB-CONTRACTORS THROUGHOUT THE DESIGN & CONSTRUCTION WORKS.

3.0 THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE EMERGENCY LIGHTING KEY TEST SWITCHES, LABELLED FOR EACH SWITCH WITH DESCRIPTION OF CIRCUIT, MOUNTED ADJACENT DISTRIBUTION BOARDS AS REQUIRED TO TEST EACH CIRCUIT.

4.0 FINAL SETTING OUT OF ALL EQUIPMENT & SERVICES TO BE AGREED WITH ARCHITECT AS PART OF DETAILED DESIGN PROCESS.

5.0 ALL SERVICES SHOWN ARE NEW UNLESS OTHERWISE INDICATED.

6.0 REFER TO OBI PROPERTY DESIGN DRAWINGS FOR DETAILS OF PROPOSED LIGHTING INSTALLATIONS.

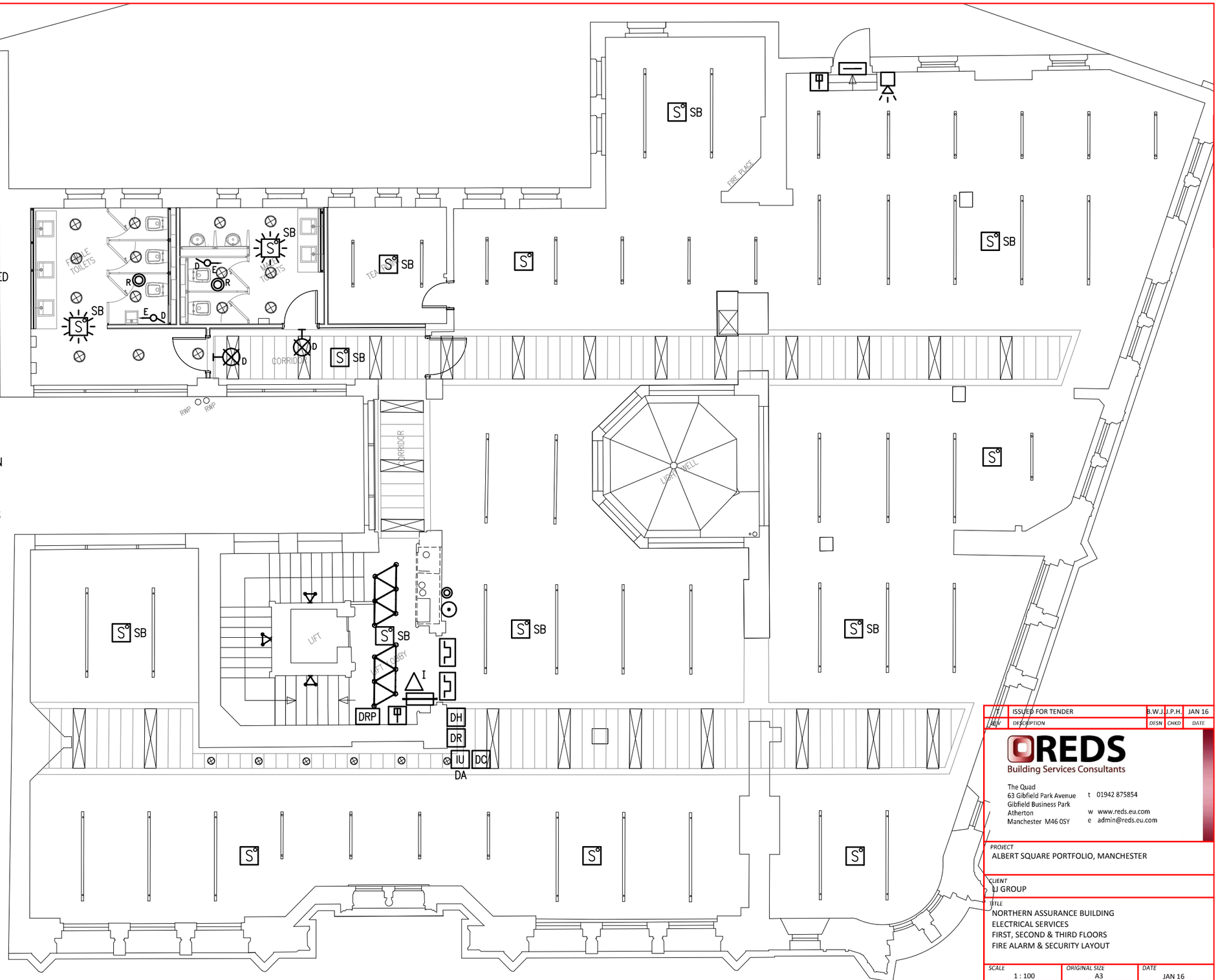
7.0 REFER TO REDS ELECTRICAL PERFORMANCE SPECIFICATION FOR DESCRIPTIONS OF REQUIRED LIGHTING CONTROLS & EMERGENCY LIGHTING INSTALLATIONS.

8.0 LIGHTING LEVELS ARE TO BE ACHEIVED AS STATED IN REDS ELECTRICAL PERFORMANCE SPECIFICATION. QUANTITIES OF LIGHT FITTINGS ARE INDICATIVE ONLY.

9.0 SMOKE DETECTION IS TO BE INCLUDED IN ALL VOIDS OVER 500mm DEEP.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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REV	DESCRIPTION	DESN	CHKD	DATE
T	ISSUED FOR TENDER	B.W.J.	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
FIRST, SECOND & THIRD FLOORS
FIRE ALARM & SECURITY LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN	DESIGNED	CHECKED
W.Holden	B.James	J.Hellawell

DRAWING NUMBER
M0618/E/811

REVISION
T

NOTES

1.0 THIS DRAWING IS INDICATIVE ONLY & REPRESENTS DESIGN INTENT & CLIENTS REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR FINAL DETAILED DESIGN & PLANT/SERVICES SELECTIONS.

2.0 ALL SERVICES ARE TO BE FULLY COORDINATED BETWEEN BOTH MECHANICAL & ELECTRICAL SUB-CONTRACTORS THROUGHOUT THE DESIGN & CONSTRUCTION WORKS.

3.0 THE ELECTRICAL SUB-CONTRACTOR SHALL PROVIDE EMERGENCY LIGHTING KEY TEST SWITCHES, LABELLED FOR EACH SWITCH WITH DESCRIPTION OF CIRCUIT, MOUNTED ADJACENT DISTRIBUTION BOARDS AS REQUIRED TO TEST EACH CIRCUIT.

4.0 FINAL SETTING OUT OF ALL EQUIPMENT & SERVICES TO BE AGREED WITH ARCHITECT AS PART OF DETAILED DESIGN PROCESS.

5.0 ALL SERVICES SHOWN ARE NEW UNLESS OTHERWISE INDICATED.

6.0 REFER TO OBI PROPERTY DESIGN DRAWINGS FOR DETAILS OF PROPOSED LIGHTING INSTALLATIONS.

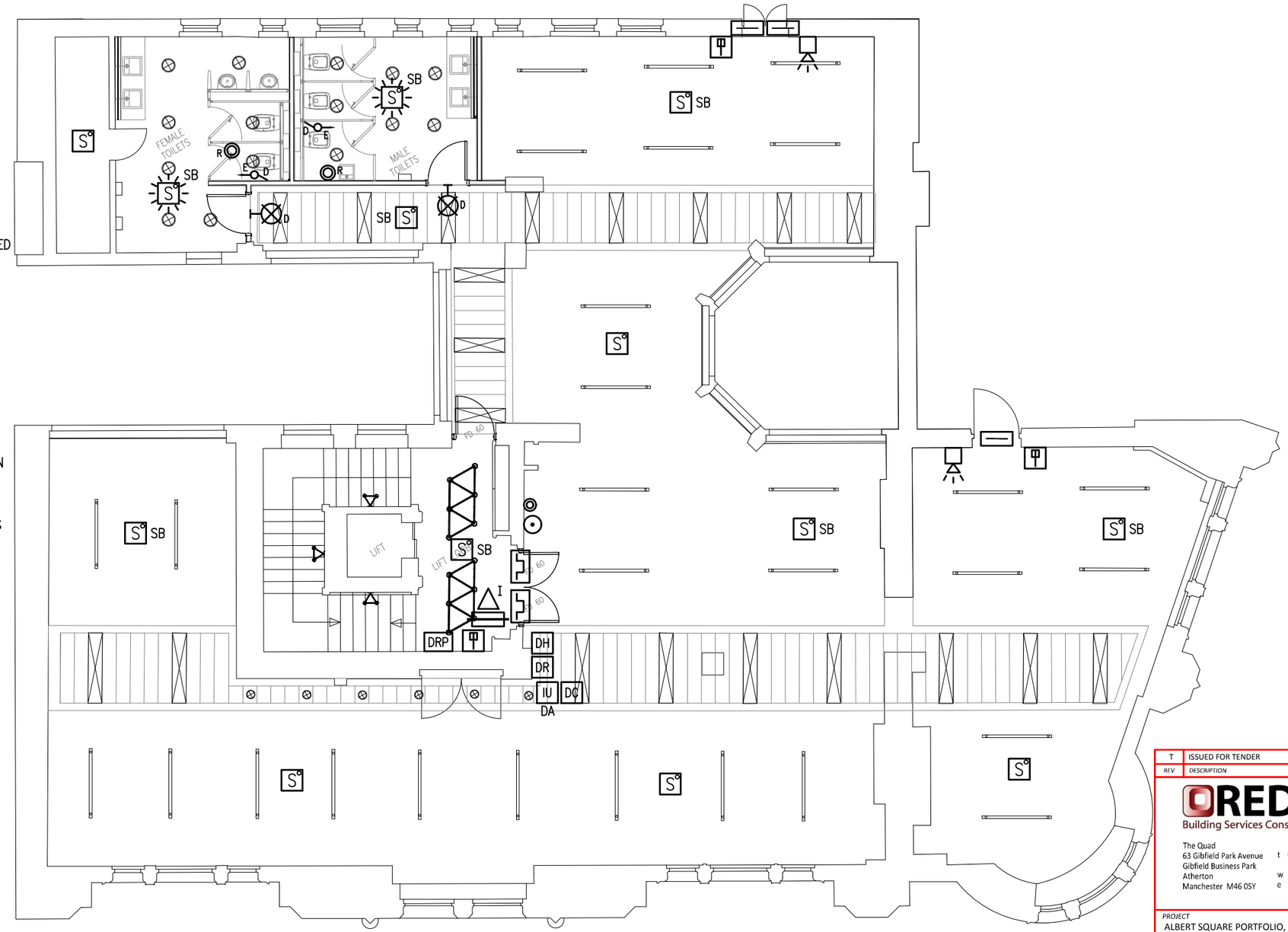
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9.0 SMOKE DETECTION IS TO BE INCLUDED IN ALL VOIDS OVER 500mm DEEP.

LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
FOURTH FLOOR
FIRE ALARM & SECURITY LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN	DESIGNED	CHECKED
W.Holden	B.James	J.Hellawell

DRAWING NUMBER
M0618/E/812

REVISION
T

NOTES

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6.0 REFER TO OBI PROPERTY DESIGN DRAWINGS FOR DETAILS OF PROPOSED LIGHTING INSTALLATIONS.

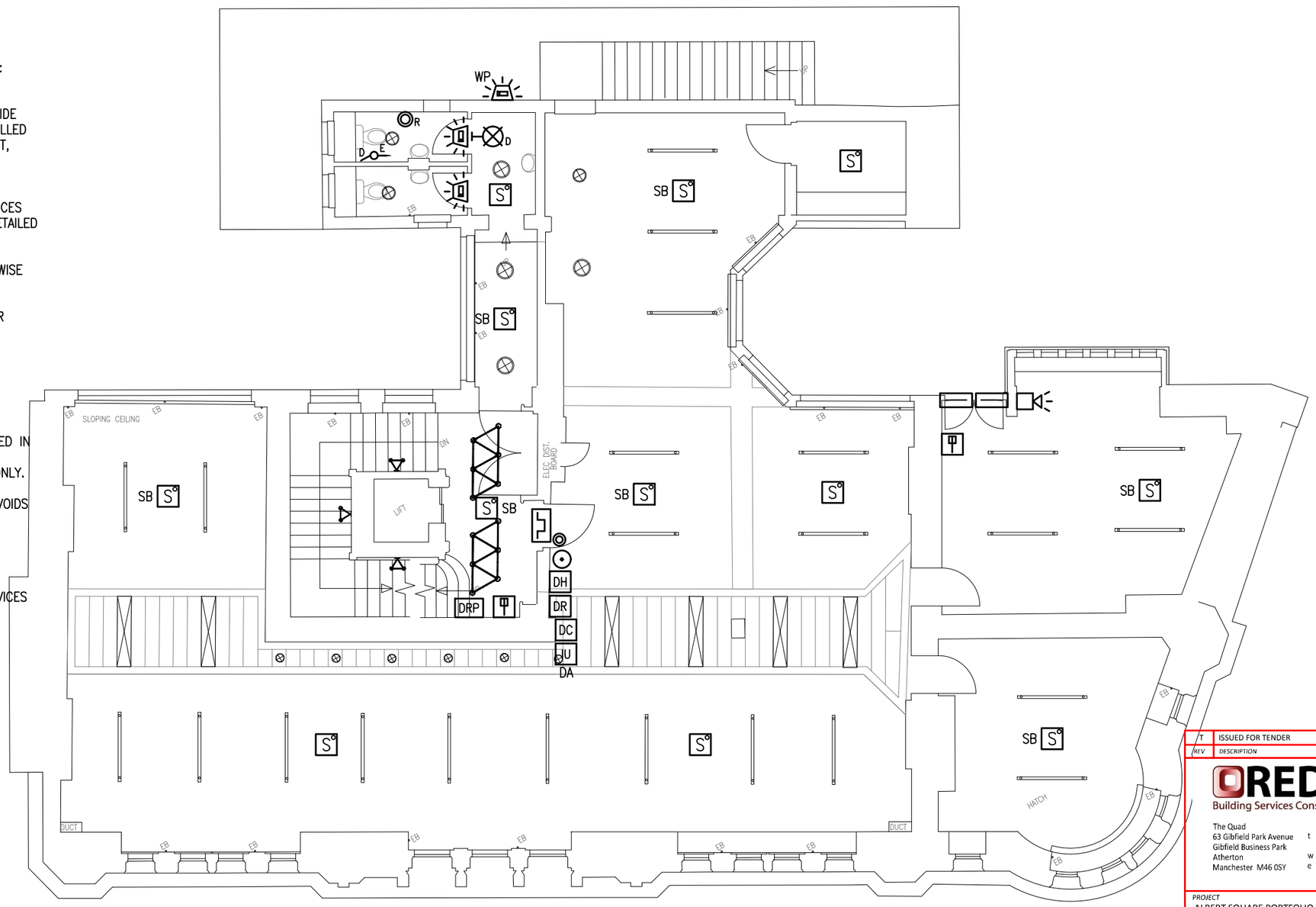
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LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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T	ISSUED FOR TENDER	B.W.	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
FIFTH FLOOR
FIRE ALARM & SECURITY LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN	DESIGNED	CHECKED
W.Holden	B.James	J.Hellawell

DRAWING NUMBER
M0618/E/813

REVISION
T

NOTES

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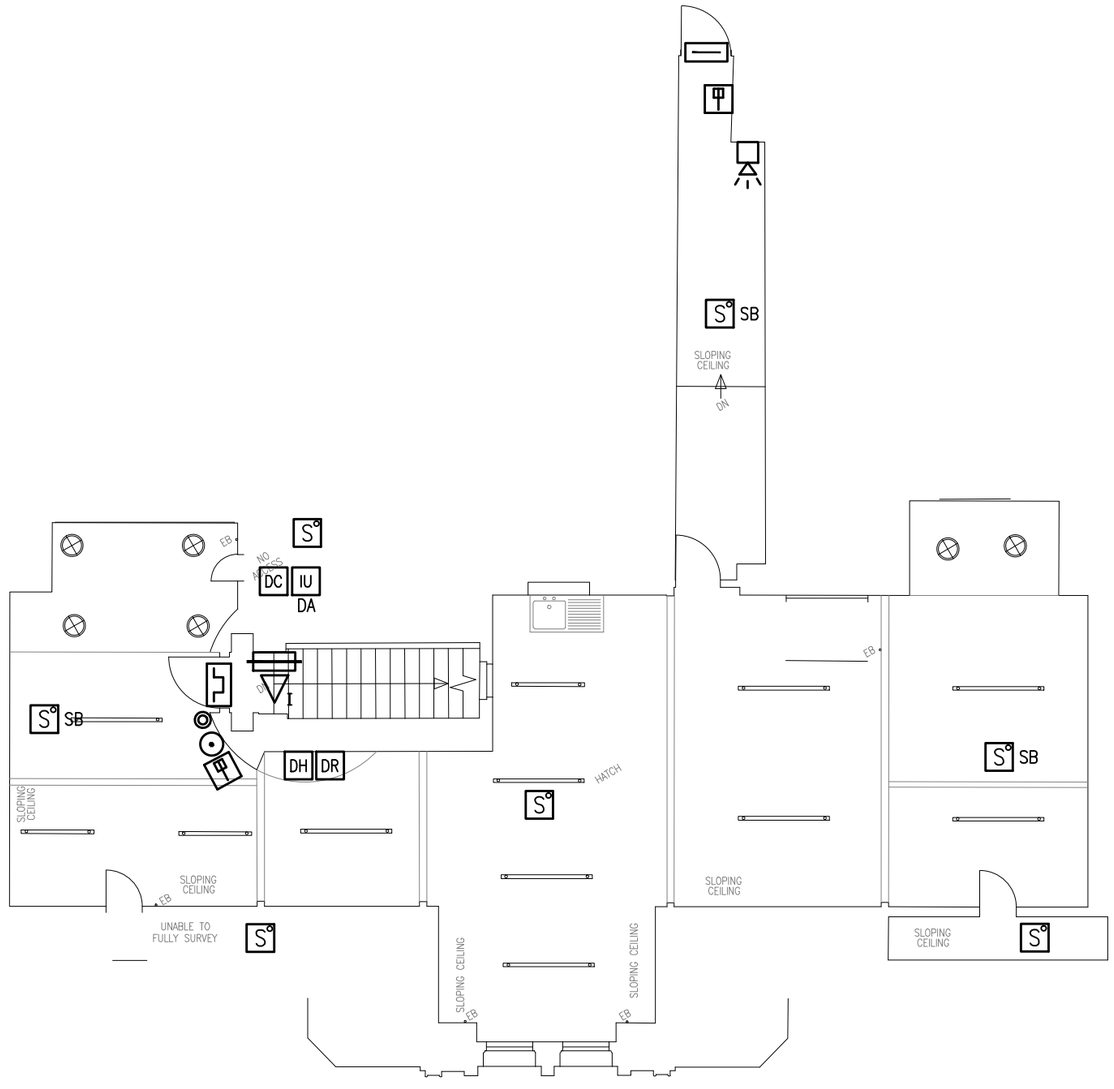
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LEGEND

SEE DRAWING M0618/E/LEGEND FOR ELECTRICAL SERVICES LEGEND DRAWING.



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T	ISSUED FOR TENDER	B.W.J	J.P.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
ELECTRICAL SERVICES
SIXTH FLOOR
FIRE ALARM & SECURITY LAYOUT

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN: W.Holden	DESIGNED: B.James	CHECKED: J.Hellawell

DRAWING NUMBER: M0618/E/814
REVISION: T

NOTES

1.0 ALL RADIATORS & HEATING PIPEWORK TO BE COMPLETELY STRIPPED OUT.

2.0 FINAL SETTING OUT OF ALL CEILING MOUNTED FIXTURES & FITTINGS TO BE AGREED WITH OBI.

3.0 CONTRACTOR TO REVIEW OBI G.A.'S FOR EACH FLOOR & MAKE ADJUSTMENTS TO EXTENT OF SERVICES ACCORDINGLY.

LEGEND

- HARD WIRED LOCAL CONTROLLER FOR FAN COIL UNITS.
- AE200 — CENTRAL VRF SYSTEM CONTROLLER.
- PRINCIPLE ROUTE OF REFRIGERANT LINES IN CEILING VOID FROM BC CONTROLLER TO FAN COIL UNITS & CONDENSING UNITS.
- ABOVE CEILING FAN COIL UNIT C/W INSULATED PLENUM & SPIRAL WOUND DUCTWORK TO DIFFUSERS.
- ACTIVE SECTION OF LINEAR BAR DOUBLE DEFLECTION SUPPLY DIFFUSER.
- RETURN AIR SECTION OF LINEAR BAR GRILLE TO BULKHEAD PLENUM.
- EXISTING PLUMBING INSTALLATIONS TO BE EXTENDED TO SUIT NEW SANITARYWARE POSITIONS & SPECIFICATIONS. ALL VALVES & WATER HEATERS TO BE FULLY ACCESSIBLE.
  AREA TO BE HEATED VIA ELECTRIC PANEL HEATERS.
  MECHANICAL EXTRACT VENTILATION TO BE PROVIDED VIA MODIFICATION/EXTENSION TO EXISTING SYSTEMS AND/OR PROVISION OF NEW FAN SYSTEMS. CONTROLLED VIA PIR'S.

GENERAL LEGEND

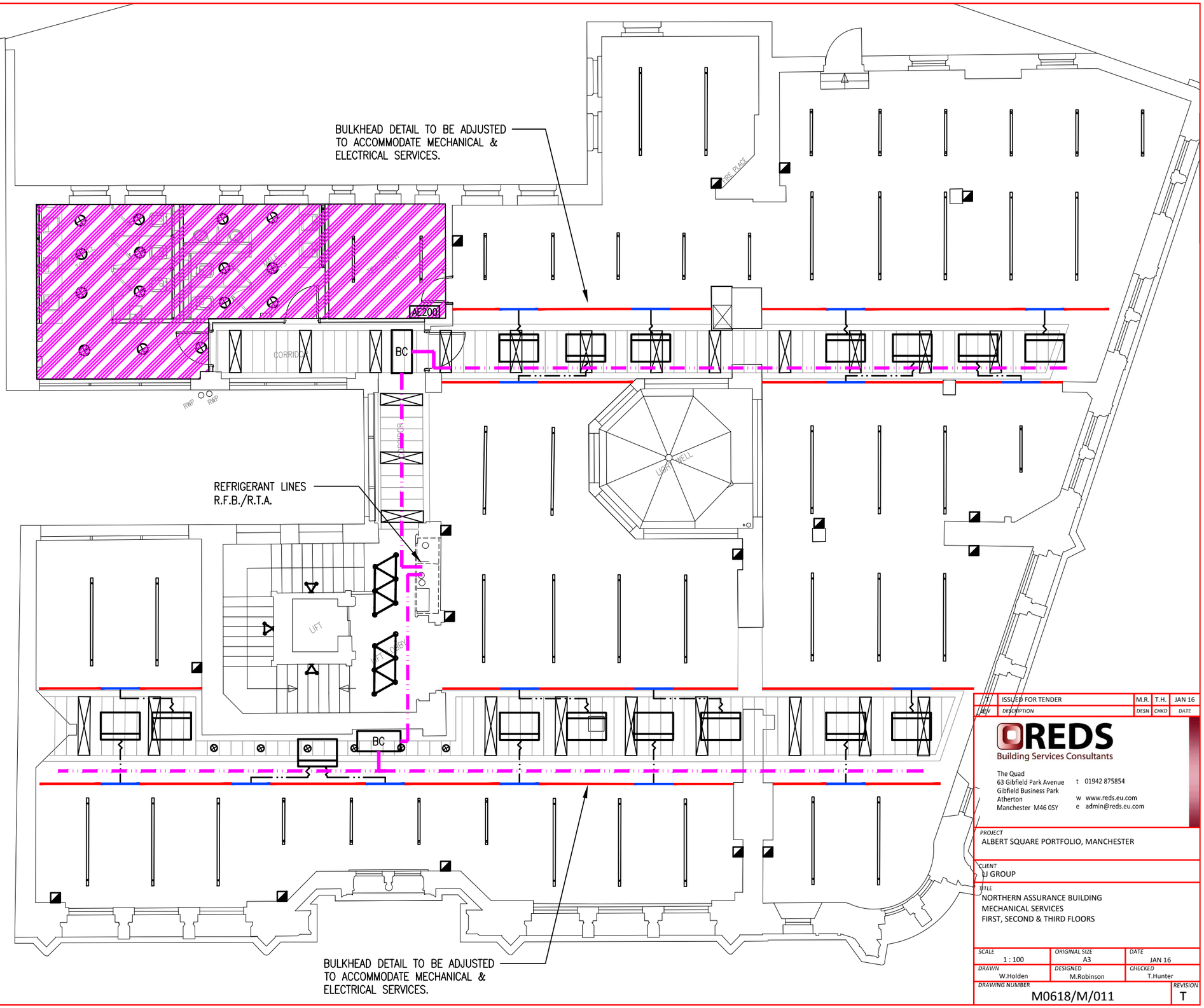
L/L	ITEM MOUNTED AT LOW LEVEL.
H/L	ITEM MOUNTED AT HIGH LEVEL.
C/V	ITEM MOUNTED IN CEILING VOID.
R/V	ITEM MOUNTED IN ROOF VOID.
F/V	ITEM MOUNTED IN FLOOR VOID.
R.T.A.	RISE TO ABOVE.
R.F.B.	RISE FROM BELOW.
D.F.A.	DROP FROM ABOVE.
D.T.B.	DROP TO BELOW.

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T	ISSUED FOR TENDER	M.R.	T.H.	JAN 16

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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
MECHANICAL SERVICES
FIRST, SECOND & THIRD FLOORS

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN: W.Holden	DESIGNED: M.Robinson	CHECKED: T.Hunter

DRAWING NUMBER: M0618/M/011
REVISION: T

NOTES

1.0 ALL RADIATORS & HEATING PIPEWORK TO BE COMPLETELY STRIPPED OUT.

2.0 FINAL SETTING OUT OF ALL CEILING MOUNTED FIXTURES & FITTINGS TO BE AGREED WITH OBI.

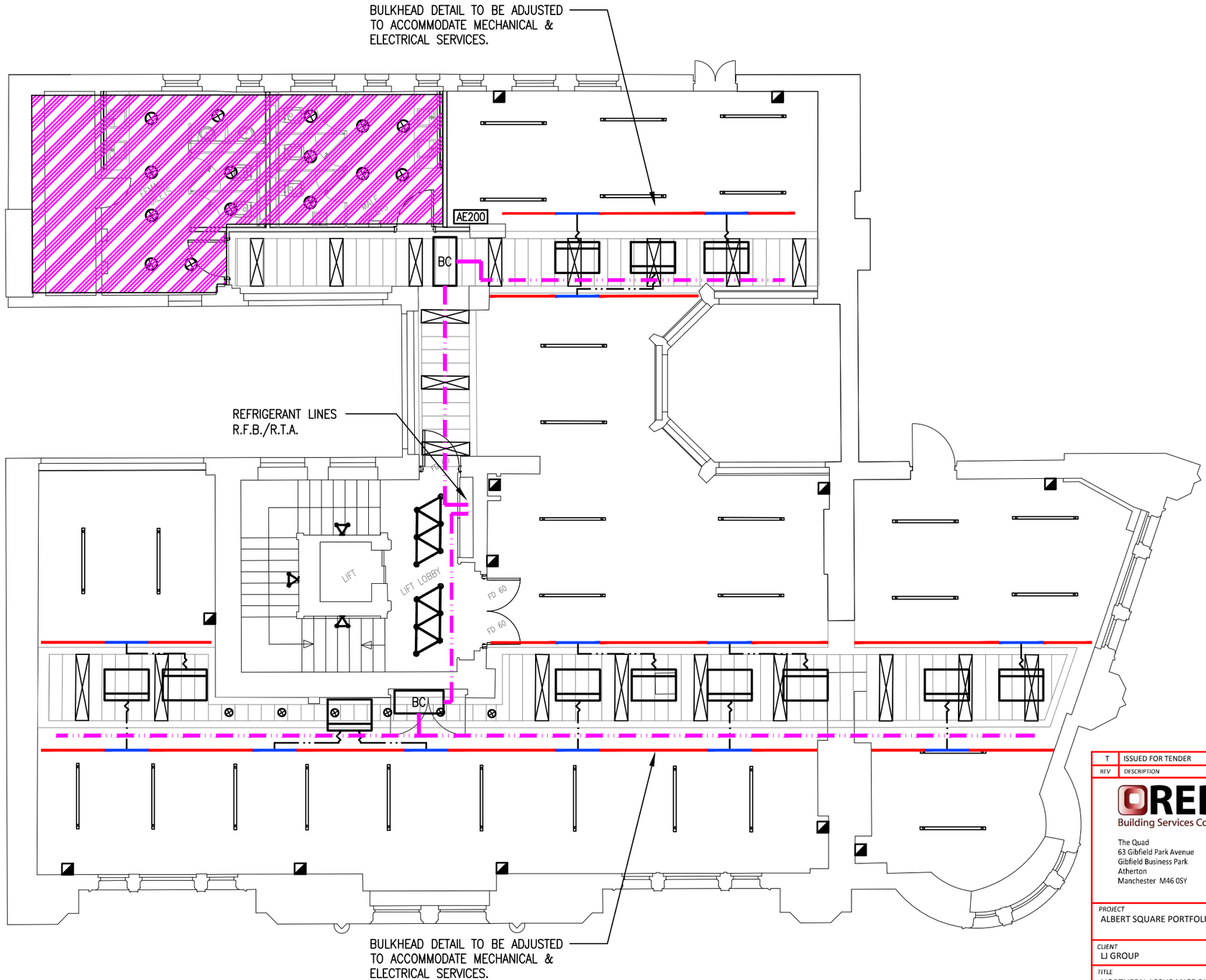
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LEGEND

- HARD WIRED LOCAL CONTROLLER FOR FAN COIL UNITS.
- AE200 — CENTRAL VRF SYSTEM CONTROLLER.
- PRINCIPLE ROUTE OF REFRIGERANT LINES IN CEILING VOID FROM BC CONTROLLER TO FAN COIL UNITS & CONDENSING UNITS.
- ABOVE CEILING FAN COIL UNIT C/W INSULATED PLENUM & SPIRAL WOUND DUCTWORK TO DIFFUSERS.
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  AREA TO BE HEATED VIA ELECTRIC PANEL HEATERS.
  MECHANICAL EXTRACT VENTILATION TO BE PROVIDED VIA MODIFICATION/EXTENSION TO EXISTING SYSTEMS AND/OR PROVISION OF NEW FAN SYSTEMS. CONTROLLED VIA PIR'S.

GENERAL LEGEND

L/L	ITEM MOUNTED AT LOW LEVEL.
H/L	ITEM MOUNTED AT HIGH LEVEL.
C/V	ITEM MOUNTED IN CEILING VOID.
R/V	ITEM MOUNTED IN ROOF VOID.
F/V	ITEM MOUNTED IN FLOOR VOID.
R.T.A.	RISE TO ABOVE.
R.F.B.	RISE FROM BELOW.
D.F.A.	DROP FROM ABOVE.
D.T.B.	DROP TO BELOW.



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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
MECHANICAL SERVICES
FOURTH FLOOR

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN: W.Holden	DESIGNED: M.Robinson	CHECKED: T.Hunter

DRAWING NUMBER: M0618/M/012
REVISION: T

NOTES

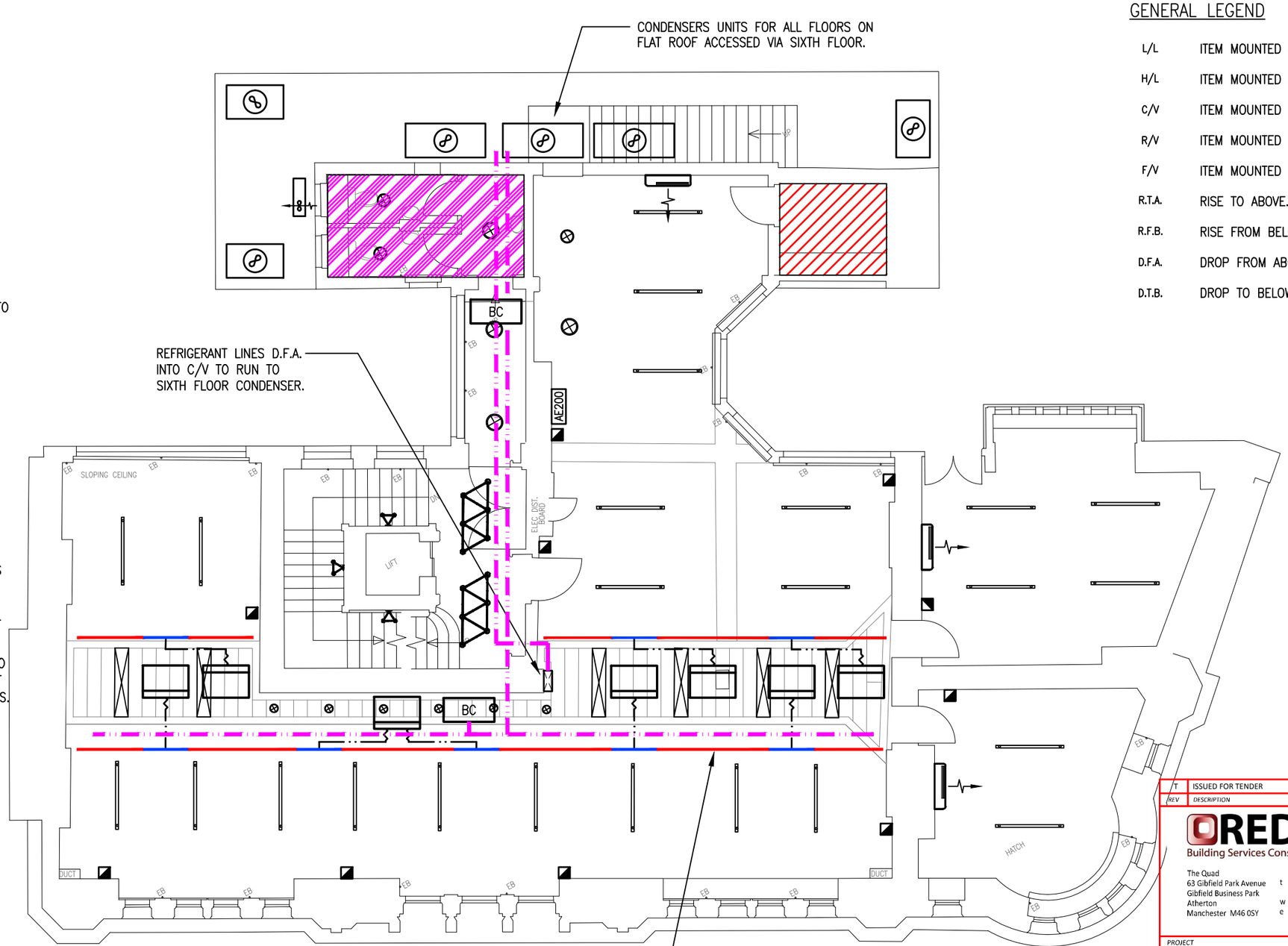
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3.0 CONTRACTOR TO REVIEW OBI G.A.'S FOR EACH FLOOR & MAKE ADJUSTMENTS TO EXTENT OF SERVICES ACCORDINGLY.

LEGEND

- HARD WIRED LOCAL CONTROLLER FOR FAN COIL UNITS.
- AE200 — CENTRAL VRF SYSTEM CONTROLLER.
- PRINCIPLE ROUTE OF REFRIGERANT LINES IN CEILING VOID FROM BC CONTROLLER TO FAN COIL UNITS & CONDENSING UNITS.
- WALL MOUNTED INDOOR UNIT AT H/L.
- ABOVE CEILING FAN COIL UNIT C/W INSULATED PLENUM & SPIRAL WOUND DUCTWORK TO DIFFUSERS.
- ACTIVE SECTION OF LINEAR BAR DOUBLE DEFLECTION SUPPLY DIFFUSER.
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- AREA TO BE HEATED VIA ELECTRIC PANEL HEATER.



GENERAL LEGEND

L/L	ITEM MOUNTED AT LOW LEVEL.
H/L	ITEM MOUNTED AT HIGH LEVEL.
C/V	ITEM MOUNTED IN CEILING VOID.
R/V	ITEM MOUNTED IN ROOF VOID.
F/V	ITEM MOUNTED IN FLOOR VOID.
R.T.A.	RISE TO ABOVE.
R.F.B.	RISE FROM BELOW.
D.F.A.	DROP FROM ABOVE.
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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
MECHANICAL SERVICES
FIFTH FLOOR

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN: W.Holden	DESIGNED: M.Robinson	CHECKED: T.Hunter

DRAWING NUMBER: M0618/M/013
REVISION: T

NOTES

1.0 ALL RADIATORS & HEATING PIPEWORK TO BE COMPLETELY STRIPPED OUT.

2.0 FINAL SETTING OUT OF ALL CEILING MOUNTED FIXTURES & FITTINGS TO BE AGREED WITH OBI.

LEGEND

HARD WIRED LOCAL CONTROLLER FOR FAN COIL UNITS.

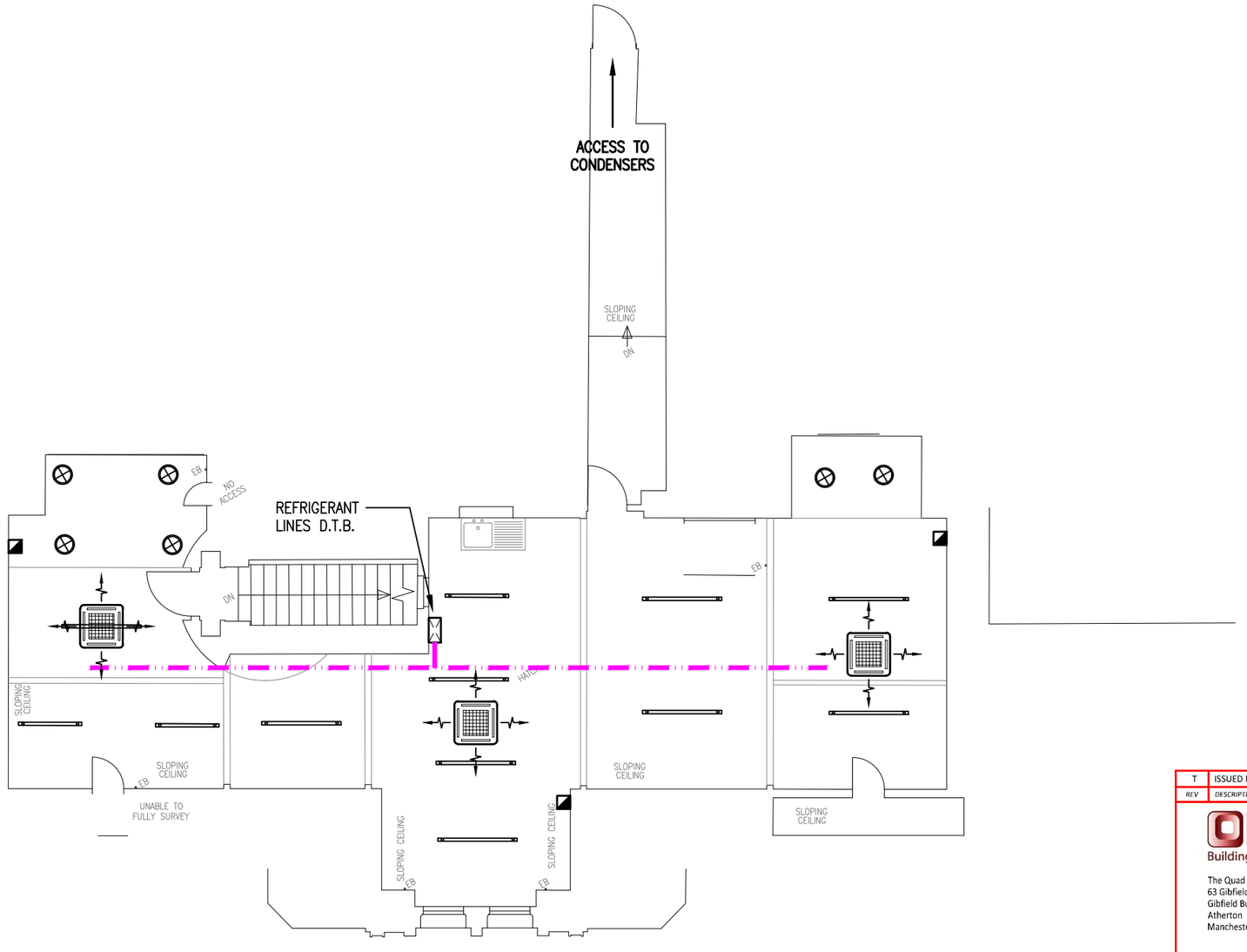
AE200 CENTRAL VRF SYSTEM CONTROLLER.

PRINCIPLE ROUTE OF REFRIGERANT LINES IN CEILING VOID FROM BC CONTROLLER TO FAN COIL UNITS & CONDENSING UNITS.

4 WAY BLOW CASSETTE UNIT.

GENERAL LEGEND

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H/L	ITEM MOUNTED AT HIGH LEVEL.
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PROJECT
ALBERT SQUARE PORTFOLIO, MANCHESTER

CLIENT
LJ GROUP

TITLE
NORTHERN ASSURANCE BUILDING
MECHANICAL SERVICES
SIXTH FLOOR

SCALE	ORIGINAL SIZE	DATE
1 : 100	A3	JAN 16
DRAWN: W.Holden	DESIGNED: M.Robinson	CHECKED: T.Hunter

DRAWING NUMBER: M0618/M/014
REVISION: T