NOTE:
TOTAL 306 PARKING BAYS

BLOCK C

Sub stn.

17 no. existing parking bays

Vehicular access/exit

SITE BOUNDARY

Existing enclosure removed

Vehicle lay-bye reduced to avoid fresh air intakes

security fence

CHILLER UNITS

louvred plant enclosure

security fence

Loading bock

Loading bock

sliding gate

FIXED BOLLARDS TYPE B

refuse

compactor

security fence

FUEL STORE

louvred plant enclosure

retaining wall with security fence

OFFICES

DATA CENTRE

COURTYARD

OFFICES

PYLON PHW1

5 new bays

Vehicular access/exit

SITE BOUNDARY

ESKDALE ROAD

WHARFDALE ROAD

24 MAR 2000* 1057

NORTH

0 10 20 30 40 50 60 70 80 90 60

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APPROVALS	DATE
JM	14-03-00
RP	

intel CORPORATION

INTEL UK Limited
Pipers Way, Swindon
WILTSHIRE
SN3 1RJ

SITE PLAN EXISTING

HOME ID NO.	FILE NAME	DRAWING NO.	W3A-8003
LIBRARY NO.	W3A-8003	DRAWING SCALE	SHEET OF
	PLOT SCALE 1:500	1:500	1 1

ELB1/5

3m LONG, 25mmSQ. COPPER CLAD STEEL EARTH ELECTRODE CAD WELDED TO 95mmSQ. PERIMETER BRAIDED COPPER CONDUCTOR (BARE), LAID IN STREETLIGHTING TRENCH AT LEAST 1m DEEP.

SPACING APPROX. 6000

MAIN BUILDING EARTH NETWORK

light above door

light above door

light above door

95mmSQ. EARTH CONDUCTOR CAD WELDED TO PERIMETER EARTH NETWORK RUNS IN 50mm DUCT AND TERMINATES ON MAIN BULDING EARTH BAR, LOCATED IN L.V. SWITCHROOM & 95mmSQ. EARTH CONDUCTOR RUNS IN SEPERATE DUCT TO MAIN SERVER AREA EARTH BAR LOCATED IN L.V. SWITCHROOM.

PHOTO-CELL POSITION TO BE SITE AGREED

Route of electricity cable

SEE NOTE 7.

Visibility splays 4.5 x 90.0m

Visibility splays 4.5 x 90m

exhaust stack

Schedule:

- L3 6m single luminaire column light
- L5 4m twin luminaire column light.
- L6 4m single luminaire column light
- W1 1m bollard lighting.
- S1/S4 wall mounted luminaire @ 5m above ground level.
- wall mounted light above door.

NOTES

1. THE EARTHING INSTALLATION SHALL COMPLY WITH BS7430.
2. THE EARTHING INSTALLATION IS INDICATIVE ONLY IN ABEYANCE OF SOIL RESISTIVITY FIGURES. THE CONTRACTOR SHALL ENSURE THAT THE FINAL EARTHING INSTALLATION COMPLIES WITH BS7430.
3. INSULATED CONDUCTORS SHALL BE GREEN & YELLOW.
4. THE EARTH INSTALLATION SHALL BE CO-ORDINATED WITH ALL EXISTING AND NEW UNDERGROUND SERVICES.
5. THE CONTRACTOR IS RESPONSIBLE FOR COMPLYING AND SUBMITTING EARTHING CALCULATIONS COMPLIANT WITH BS7430.
6. THE FINAL LOCATION OF ALL ELECTRODES SHALL BE DETERMINED ON SITE.
7. FOR SEB INCOMING CABLES REFER TO 55069/C/0700

A99 057

RECEIVED 2 MAR 2000

FOR HLM.
BRUCE LAURIE.
1/3/00.

24.MAR2000 1007

REV	DESCRIPTION	BY DATE	M	E	P	F	ISSUE DATE
			CHECKED				
11	RE-ISSUED FOR APPROVAL	18th FEB00					
10	ISSUED FOR APPROVAL	16th JAN00					
9	REVISED TO ARUPS COMMENTS 02/02/00						

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FOR APPROVAL

KEY PLAN

ENGINEER	DRAWN	DATE	CHECKED	DATE
K.S.	J.F.B.	16.1.00		

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DRAWN	
CHECKED	
CROSSCHECK	
SAFETY	
PLANNING	
ENGINEER	
APPROVED	
TEST CODE	

IDS-3

intel CORPORATION
INTEL UK Limited
Pipers Way Swindon WILTSHIRE SN3 1RJ

DRAWING TITLE
EXTERNAL SERVICES AND LIGHTING LAYOUT

Matthew Hall

DRAWING NUMBER
55609/E/7018

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SCALE: 1:250

NOTE:
TOTAL 306 PARKING BAYS

BLOCK C

Sub stn.

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Vehicular access/exit

SITE BOUNDARY

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FIXED BOLLARDS TYPE B

OFFICES

DATA CENTRE

COURTYARD

OFFICES

ESKDALE ROAD

PYLON PHW1

5 new bays

Vehicular access/exit

SITE BOUNDARY

CHAPPDALE ROAD

24 MAR 2008 1057

NORTH

0 10 20 30 40 50 60 70 80 90 100

		JM	14-03-08

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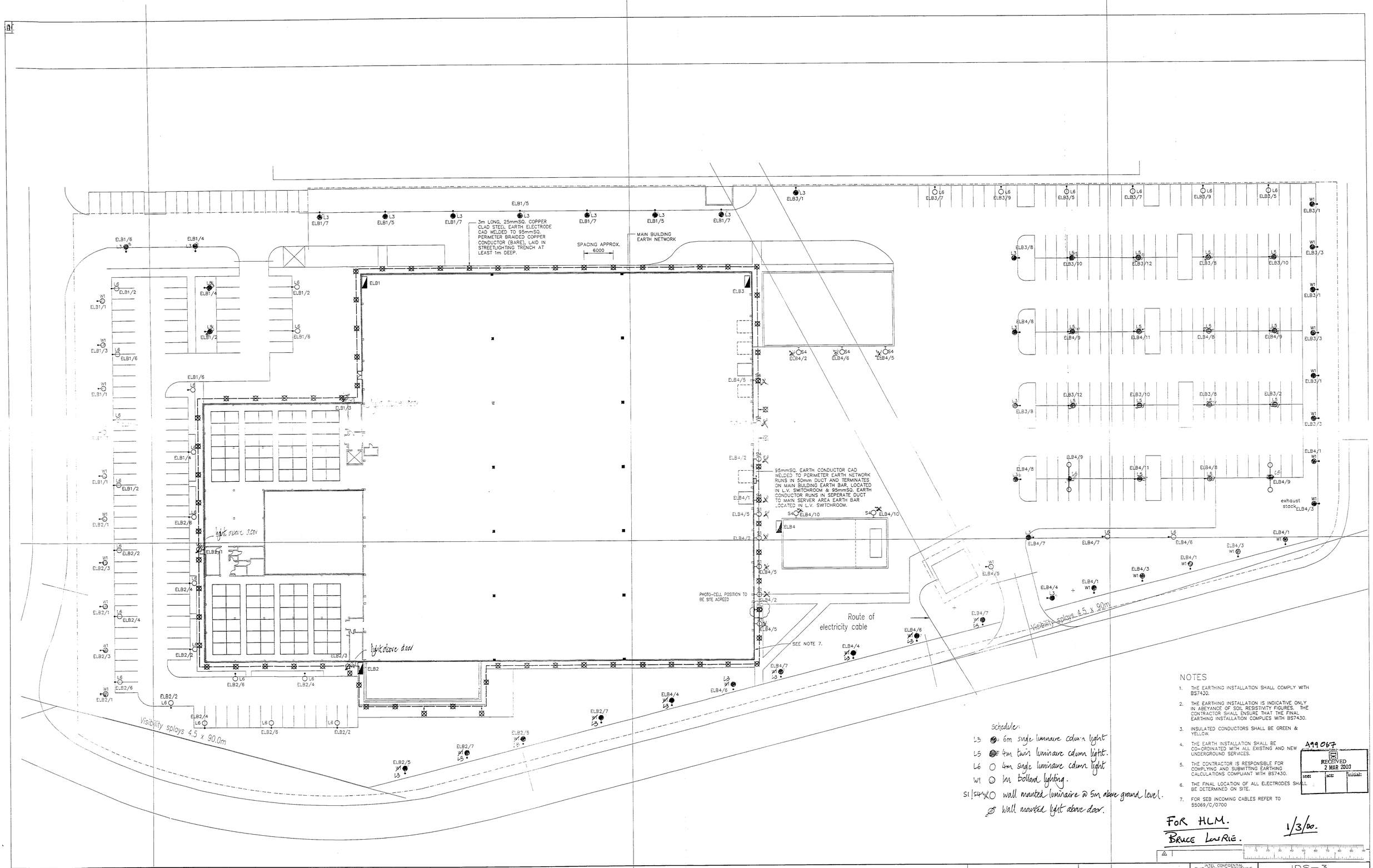
APPROVALS	DATE
DRAWN JM	14-03-00
CHECKED RP	
ORIGINATOR	
SAFETY	
PLANNING	
ENGINEER	
APPROVED	
DEPT CODE	

SITE PLAN EXISTING

WORK ID NO.	FILE NAME W3A-8003	DRAWING NO.	W3A-8003
CAD DRG NO.	PLOT SCALE 1:500	DRAWING SCALE 1:500	SHEET OF 1 1



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7. FOR SEB INCOMING CABLES REFER TO 55069/C/0700

A99067

RECEIVED 2 MAR 2000

sec:	act:	initial:

FOR HLM.
BRUCE LOURIE.
1/3/00.

REV	DESCRIPTION	BY DATE	M	E	P	F	ISSUE DATE
	REVISED TO ARUPS COMMENTS 02/02/00						
1	RE-ISSUED FOR APPROVAL	18th FEB00					
0	ISSUED FOR APPROVAL	16th JAN00					

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KEY PLAN

ENGINEER	DRAWN	DATE	CHECKED	DATE
K.S.	J.F.B.	16.1.00		

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ENGINEER	
APPROVED	
EST CODE	

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INTEL UK Limited
Pipers Way, Swindon
WILTSHIRE
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DRAWING TITLE
EXTERNAL SERVICES AND LIGHTING LAYOUT

Matthew Hall

DRAWING NUMBER 55609/E/7018

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SCALE: 1:250

A0

ELECTRICAL SYMBOLS 1/8

SYMBOL	DESCRIPTION
	CONDUIT IDENTIFIERS
	CONDUIT AND CONDUCTORS ABOVE GRADE
	CONDUIT AND CONDUCTORS BELOW GRADE OR SLAB
L	LIGHTNING GROUND
P	PRIMARY VOLTAGE SYSTEM
D	DATA CONDUIT
R	RADIO FREQUENCY CONDUIT
C	CONTROL SYSTEM CONDUIT
CLK	CLOCK CONDUIT
EPS	EMERGENCY POWER SYSTEM WIRING CONDUIT
ESF	ESF CONDUIT
G	GROUNDING CONDUCTOR
VDA	VDA SYSTEM CONDUIT
LLD	LIQUID LEAK DETECTION
T	TELEPHONE
FMS	FACILITIES MAINTENANCE SYSTEM
	BLOCKS
	CONDUCTOR, GROUND
	CONDUCTOR, ISOLATED GROUND
	CONDUCTOR, HOT
	CONDUCTOR, NEUTRAL
	CONDUCTOR, SWITCH
	CONDUCTOR, LIGHTING
	CONDUCTOR, POWER
D	CONDUIT DOWN
U	CONDUIT UP
s	CONDUIT WITH PULL WIRE, STUBBED AND CAPPED
	GROUND ROD, AIR TERMINAL FOR LIGHTNING PROTECTION
	FLEXIBLE CONDUIT
	HOME RUN, 1 CIRCUIT
	HOME RUN, 2 CIRCUITS
	HOME RUN, 3 CIRCUITS

ELECTRICAL SYMBOLS 2/8

SYMBOL	DESCRIPTION
	JUNCTION BOX
	FLOOR MOUNTED J-BOX
PB	PULL BOX
	SURFACE UNSWITCHED FUSED SPUR
	WALL MTD RECEPTACLE, SINGLE, DUPLEX, 4-PLEX GF= GROUND FAULT INTERRUPT WP= WEATHERPROOF IG= ISOLATED GROUND
	FLOOR MTD. RECEPTACLE, SINGLE, DUPLEX, 4-PLEX
	CEILING MTD. RECEPTACLE, SINGLE, DUPLEX, 4-PLEX
	MULTIPLE OUTLET ASSEMBLY
	PEDESTAL DUPLEX RECEPTACLE
T	WITH TELEPHONE
D	WITH DATA RECEPTACLE
T	TELEPHONE RECEPTACLE, WALL AND FLOOR MOUNTED WP= WEATHERPROOF
D	DATA RECEPTACLE, WALL AND FLOOR MOUNTED
	COMET RECEPTACLE
	SPECIAL PURPOSE RECEPTACLE--CEILING MOUNTED
	SPECIAL PURPOSE RECEPTACLE--WALL MOUNTED
	SPECIAL PURPOSE RECEPTACLE--FLOOR MOUNTED
	NEMA CONFIGURATION AND AMPERAGE INDICATED MOTOR HP= HORSEPOWER F= FRACTIONAL (1/3 HP OR LESS)
	EMERGENCY/STANDBY ENGINE GENERATOR
	CIRCUIT BREAKER A= AMPERAGE
	PUSH BUTTON OR CONTROL STATION WITH DEVICE TAG NUMBER, EMO= EMERGENCY OFF
	GROUNDING BUS, GROUND PLATE
T	DRY-TYPE TRANSFORMER
VFD	VARIABLE FREQUENCY DRIVE
MCC	MOTOR CONTROL CENTRE
	16A SOCKET OUTLET, BS4343 MOUNTED ON SIDE OF METALLIC TRUNKING

ELECTRICAL SYMBOLS 3/8

SYMBOL	DESCRIPTION
	MAJOR ELECTRICAL COMPONENT OR DEVICE
EM	SURFACE AND FLUSH MOUNTED PANEL BOARDS EM= EMERGENCY 3R= NEMA 3R, X= EXPLOSIONPROOF 4X= NEMA 4X, WP= WEATHERPROOF
NF	NONFUSED DISCONNECT SWITCH, AMPERAGE INDICATED
FS	FUSED DISCONNECT SWITCH X= FUSE AMPERAGE, Y= SWITCH AMPERAGE
CB	ENCLOSED CIRCUIT BREAKER WITH SHORT CIRCUIT AND OVERCURRENT PROTECTION X= TRIP AMPERAGE, Y= FRAME AMPERAGE
M	ENCLOSED MAGNETIC CONTACTOR, AMPERAGE INDICATED
S	ENCLOSED MAGNETIC STARTER, NEMA SIZE INDICATED
MCC	ENCLOSED COMBINATION MAGNETIC STARTER NEMA SIZE INDICATED
SET DOWN	CHANGE IN ELEVATION USING VERTICAL ADJUSTABLE SIDE PLATES
	BUSWAY (SIZE AS INDICATED)
	CABLE CONTAINMENT (SIZE AS INDICATED) TYPE OF CONTAINMENT INDICATED. (LV/0.4kV).
	CABLE CONTAINMENT (SIZE AS INDICATED) TYPE OF CONTAINMENT INDICATED. (HV/11kV).
	I.T. CABLE CONTAINMENT (SIZE AS INDICATED) TYPE OF CONTAINMENT INDICATED.
	BUSWAY-FEEDER OR PLUG-IN AS INDICATED ON ONE-LINE, DEVICE TYPE AND RATING INDICATED
	CABLE TRUNKING
DOL	DIRECT ON LINE STARTER
S/D	STAR DELTA STARTER

ELECTRICAL SYMBOLS 4/8

SYMBOL	DESCRIPTION
PE	PHOTOELECTRIC LIGHTING CONTROL UNIT - SENSOR AIMED NORTH UNLESS OTHERWISE NOTED.
PE	PHOTOELECTRIC DEVICE
PT	PRESSURE TRANSDUCER
PA	PAGING TRUMPET SOUND REPRODUCER
VC	VOLUME CONTROL SWITCH
S	CONE TYPE SPEAKER, CEILING SURFACE MOUNTED
S	CONE TYPE SPEAKER, WALL SURFACE MOUNTED
ES	ELECTRIC STRIKE
EL	ELECTRIC LOCK
EB	ELECTRIC BOLT
R	RELAY
HH	HANDHOLE
HH-#	HANDHOLE WITH ID NUMBER
MH	MANHOLE
MH-#	MANHOLE WITH ID NUMBER
C	CLOCK
C	WALL-MOUNTED CLOCK
	WALL-MOUNTED METER

ELECTRICAL SYMBOLS 5a/8

SYMBOL	DESCRIPTION
	GENERAL NOTE: LIGHTING PLANS FOR CONSTRUCTION DOCUMENTS SHALL INCLUDE GRAPHIC REPRESENTATION OF ELECTRICAL CIRCUITING.
	LIGHTING DESIGNATIONS: A1= LUMINAIRE TYPE 1= CIRCUIT NUMBER a= SWITCH LEG DESTINATION EM= EMERGENCY HD= HIGH INTENSITY DISCHARGE
A1	FLUORESCENT LIGHT FIXTURE, LAY-IN
A1	FLUORESCENT LIGHT FIXTURE, SURFACE/RECESS MTD
	EMERGENCY LIGHT FIXTURE
	INVERTER SYSTEM, EMERGENCY LIGHT
	BATTERY OPERATED EMERGENCY LIGHT, TWO LAMPS
A1	FLUORESCENT STRIP LIGHT, LENGTH AS SHOWN
	FLUORESCENT STRIP LIGHT, EMERGENCY
	TEARDROP LIGHT FIXTURE, 24", 36" or 48"
	SURFACE MOUNTED LIGHT
	RECESSED LIGHT
	WALL MOUNTED LIGHT
	POLE MOUNTED LIGHT
	EXIT LIGHT, CEILING MOUNTED DIRECTIONAL ARROWS INDICATE EXIT PATH
	EXIT LIGHT, WALL MOUNTED DIRECTIONAL ARROWS INDICATE EXIT PATH
$	WALL SWITCH, SUBSCRIPT INDICATES TYPE: 2= TWO WAY LV= LOW VOLTAGE 3= THREE WAY P= PILOT LIGHT 4= FOUR WAY K= KEY OPERATED D= DIMMER WP= WEATHERPROOF M= MANUAL MOTOR STARTER SWITCH T= THERMAL SWITCH
	WALL SWITCH, PUSHBUTTON

ELECTRICAL SYMBOLS 5b/8

SYMBOL	DESCRIPTION
B3	600 x 600 RECESSED 4 x 18W HF FLUORESCENT DOWNLIGHTER WITH SEMI-MATT ANODIZED ALUMINUM LOUVER TRILUX 1361/418RSV/EVG-D/370/1/SOF. LUMINAIRE TO BE PROVIDED WITH BACK COVER IN SERVER ROOMS.(SEE NOTE 3).
B3e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 1361/418RSV/EVG-D/370/1/SOF/EM.
B4	600 x 600 RECESSED 3 x 18W HF FLUORESCENT DOWNLIGHTER WITH LG3 CAT 2 LOUVRE TRILUX 1361/318RPV/EVG-D/370/1/SOF.
B4e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 1361/318RPV/EVG-D/370/1/SOF/EM.
C	300 x 1200 RECESSED 2 x 36W HF FLUORESCENT DOWNLIGHTER WITH LG3 Cat 2 LOUVRE TRILUX 1361/236RPV/EVG-D/370/1/SOF.
Ce	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 1361/236RPV/EVG-D/370/1/SOF/EM.
C1	300 x 1200 RECESSED 2 x 36W HF FLUORESCENT DOWNLIGHTER WITH PRISMATIC CONTROLLER TRILUX 1361/236PA/EVG-D/370/1/SOF.
C1e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 1361/236RPV/EVG-D/370/1/SOF/EM.
C2	300 x 1200 RECESSED 2 x 36W HF FLUORESCENT DOWNLIGHTER WITH SEMI-MATT ANODIZED ALUMINUM LOUVER TRILUX 1361/236RMV/EVG-D/370/1/SOF.
C2e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 1361/236RMV/EVG-D/370/1/SOF/EM.
C3	300 x 1200 SUSPENDED 2 x 36W FLUORESCENT LUMINAIRE C/W DIFFUSER TO IP 65 TRILUX 7142PC/36/EVG-D/SOF.
C3e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 7142/PC/36/EVG-D/SOF/EM.
C4	300 x 1200 SUSPENDED 2 x 36W FLUORESCENT LUMINAIRE C/W DIFFUSER TO IP 65 SUCH AS TRILUX 714/PC/36/EVG-D/SOF.
C4e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 7142/PC/36/EVG-D/SOF/EM.
D	300 x 1200 SURFACE 2 x 36W FLUORESCENT LUMINAIRE TRILUX 1330/236P/EVG-D/SOF.
De	AS ABOVE BUT C/W 3HR EMERGENCY PACK. TRILUX 1330/236P/EVG-D/SOF.
D1	INDIRECT/DIRECT SUSPENDED 2 X 36W HF FLUORESCENT LUMINAIRE WHITECROFT AEROFOIL 500/AER/HFR/2436/IND.
D1e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. WHITECROFT 500/AER/HFR/2436/IND/EM.
D4	200 x 1200 SUSPENDED 2 x 36W FLUORESCENT LUMINAIRE C/W EXPLOSION PROOF DIFFUSER. THORN P72365 4HF.
D4e	AS ABOVE BUT C/W 3HR EMERGENCY PACK. THORN P72365 4HFEM.
L3	150W SON-T SQUARE IP65 LUMINAIRE WITH CLEAR POLYCARBONATE DIFFUSER MOUNTED ON TWIN ARM 6 METRE, SQUARE TYPE COLUMN HOLOPHANE PARKPACK PRK150ST.SQSM.TF.T WITH PRKB651.6P1 COLUMN.
L5	150W SON-T SQUARE IP65 LUMINAIRE WITH CLEAR POLYCARBONATE DIFFUSER MOUNTED ON TWIN ARM 4 METRE, SQUARE TYPE COLUMN HOLOPHANE PARKPACK PRK150ST.SQSM.TF.T WITH PRKB452.4P1 COLUMN.
L6	150W SON-T SQUARE IP65 LUMINAIRE WITH CLEAR POLYCARBONATE DIFFUSER MOUNTED ON SINGLE ARM 4 METRE, SQUARE TYPE COLUMN HOLOPHANE PARKPACK PRK150ST.SQSM.TF.T WITH PRKB431.4P1 COLUMN.
M3	2 x 18W COMPACT FLUORESCENT DOWNLIGHTER, PHILIPS HF-P 218 PL-T/C 220-240.
M4	2 x 18W COMPACT FLUORESCENT DOWNLIGHTER WITH WHITE OPTIC TRILUX (IP44 IN SHOWER ROOMS) 2902W/2TC18/EVG-A/SOF.
M5	1 x 50W 38° LV RECESSED DOWNLIGHTER TRILUX (CHROME) EKD5504/SOF C/W TRE 70 TRANSFORMER.
M6	1 x 35W 38°LV RECESSED DIRECTIONAL DOWNLIGHTER TRILUX (CHROME) EKD5504/SOF C/W TRE70 TRANSFORMER.
S1 & S4	70W FLOODLIGHT TO IP65 SUCH AS HOLOPHANE PREDATOR PDS70ST.W.
W1	1000mm HIGH ALUMINIUM BOLLARD WITH 50W SON-T LAMP TO IP65 HOLOPHANE TERRALUX TRX5050.SQ.DM.
W2	415 x 225 x 70mm DEEP IP65 BULKHEAD WITH 28W COMPACT FLUORESCENT LAMP, EMERGENCY SELF CONTAINED (3HR) HOLOPHANE WALL PACKETTE EWP2820.ME.
X2	SELF CONTAINED, NOW MAINTAINED EMERGENCY EXIT LIGHT VOYAGER 8W ESX3NM/WH. REFER TO O & M MANUAL FOR LEGEND DETAILS.

ELECTRICAL SYMBOLS 6a/8

SYMBOL	DESCRIPTION
0-60A	METER w/SWITCH, AMMETER
0-400V	METER w/SWITCH, VOLTMETER
	TRANSFORMER, KVA, PRIMARY AND SECONDARY VOLTAGE INDICATED
	ISOLATION TRANSFORMER, KVA, PRIMARY AND SECONDARY VOLTAGE INDICATED
	CONTROL TRANSFORMER, PRIMARY AND SECONDARY VOLTAGE INDICATED
	INSTRUMENTATION CONTROL TRANSFORMER, RATIO, QUANTITY AND CONNECTION INDICATED
400/5 (3)	CURRENT TRANSFORMER, QUANTITY AND RATIO INDICATED
ATS	AUTOMATIC TRANSFER SWITCH, CONTINUOUS CURRENT RATING AS INDICATED
GFI	GROUND FAULT INTERRUPTER
	GROUND
	SURGE, LIGHTNING ARRESTOR
100/M	CIRCUIT BREAKER, MAGNETIC TRIP ONLY
100/M 400 250 400	CIRCUIT BREAKER, THERMAL MAGNETIC OR SOLID STATE TRIP OR FRAME/TRIP/SETTING SHOWN
	CIRCUIT BREAKER, LOW VOLTAGE, DRAW OUT
	CIRCUIT BREAKER, MEDIUM VOLTAGE, DRAW OUT
	IN-LINE FUSE
	FUSE, CURRENT RATING INDICATED
	FUSED SWITCH, CURRENT RATING INDICATED
	SWITCH, CURRENT RATING INDICATED
	CAPACITOR
	AIR CIRCUIT BREAKER 1600A OR ABOVE (MOULDED CASE CIRCUIT BREAKER 1250A OR BELOW) ALL WITHDRAWABLE.
1A19/1	SEQUENTIAL NUMBER SEQUENTIAL CABLE NUMBER UNIT SUBSTATION & SECTION

ELECTRICAL SYMBOLS 6b/8

SYMBOL	DESCRIPTION
3	CHECKING OR INTERLOCKING RELAY
26	OVER TEMPERATURE RELAY
27	UNDER VOLTAGE RELAY
32	REVERSE POWER RELAY
50	INSTANTANEOUS OVERCURRENT RELAY
51	TIME OVERCURRENT RELAY
51N	TIME EARTH FAULT RELAY
59	OVER VOLTAGE RELAY
67	AC DIRECTIONAL OVERCURRENT RELAY
67N	DIRECTIONAL EARTH CURRENT RELAY
81	OVER/UNDER FREQUENCY RELAY
87N	RESTRICTED EARTH FAULT
94	TRIPPING RELAY
95	INTERPOSING RELAY
A	AMPERE METER
W	POWER METER
VAr	PROTECTIVE POWER METER
PF	POWER FACTOR METER
Hz	FREQUENCY METER
V	VOLTAGE METER
HR	HOURS RUN METER
OP	OIL PRESSURE GUAGE
WT	WATER TEMPERATURE GUAGE
NO	NORMALLY OPEN
NC	NORMALLY CLOSED

ELECTRICAL SYMBOLS 6c/8

SYMBOL	DESCRIPTION
TVSS	TRANSIENT VOLTAGE SURGE PROTECTION
AS	CURRENT SELECTOR SWITCH
VS	VOLTAGE SELECTOR SWITCH
AM MDI	AMMETER WITH MAXIMUM DEMAND INDICATOR
VM	VOLTAGE METER
VSR	VOLTAGE SENSING RELAY (XXX - REF.)
UV	UNDERVOLTAGE RELAY
	EMERGENCY TRIP PUSH BUTTON
ITBI	INTERFACE TERMINAL BOARD.
K	MECHANICAL KEY INTERLOCK I.E. BREAKER CAN ONLY BE OPERATED WHEN KEY INSERTED
	ISOLATOR
	11kV GENERATOR EG 1
	POWER FACTOR CORRECTION UNIT. (SIZE SPECIFIED ON DRAWING).
TP+N	TRIPLE POLE + BOLTED NEUTRAL
4P	4 SWITCHED POLES
3P	3 SWITCHED POLES (NO NEUTRAL).
IL	INTERLOCK
ACB	AIR CIRCUIT BREAKER C/W ELECTRONIC RELAY FULLY SETTABLE IN CURRENT TIME DOMIANS (UNLESS OTHERWISE STATED) AND EARTH FAULT PROTECTION RELAY.
MCCB	MOULDED CASE CIRCUIT BREAKER C/W ELECTRONIC RELAY FULLY SETTABLE IN CURRENT TIME DOMIANS (UNLESS OTHERWISE STATED) AND EARTH FAULT PROTECTION RELAY.

ELECTRICAL SYMBOLS 7/8

SYMBOL	DESCRIPTION
	NO CONNECTION
	CONNECTION AS INDICATED
	LADDER DIAGRAM, AC
	LADDER DIAGRAM, DC
	RELAY
	LADDER DIAGRAM RUNG
	PUSH BUTTON, N.O.
	PUSH BUTTON, N.C.
	PUSH BUTTON w/MECHANICAL INTERLOCK
	INDICATING LIGHT, PUSH-TO-TEST, LETTER INDICATES COLOR (SHOWN 1/2 SCALE)
	LIGHT (LAMP, STROBE), LETTER INDICATES COLOR A= AMBER Y= YELLOW B= BLUE H= HIGH INTENSITY LEVEL G= GREEN M= MEDIUM INTENSITY LEVEL R= RED L= LOW INTENSITY LEVEL W= WHITE
	CONTACTS, N.O. AND N.C.
	OVERLOAD
	SELECTOR SWITCH, MAINTAINED CONTACT X= CLOSED CONTACT O= OPEN CONTACT
OFF ON	SELECTOR SWITCH, MAINTAINED CONTACT X= CLOSED CONTACT O= OPEN CONTACT
	REMOTE CONTACT, N.O.
	LIGHT

LIFE SAFETY SYMBOLS 1/3

SYMBOL	DESCRIPTION
FA	FIRE ALARM SYSTEM WIRING CONDUIT
FAS	FIRE ALARM SPEAKER CONDUIT
STRB	FIRE ALARM STROBE CONDUIT
TV	TELEVISION WIRING CONDUIT
ISOS	ISOS SYSTEM WIRING CONDUIT
VSK	VSK SYSTEM WIRING CONDUIT
FA	AUTOCALL CONDUIT, #" UNLESS OTHERWISE NOTED. HATCH MARK INDICATES QUANTITY OF PAIRED CABLES S= SHIELDED CABLE
CCTV P,T,Z	CCTV CAMERA (OUTDOOR & INDOOR) P= PAN, T= TILT, Z= ZOOM
DS	DOOR STATUS SWITCH
DS S	DOOR STATUS SWITCH WITH SOUNDER
AH	ACCESS CONTROL LOCAL ALARM HORN
AC	ACCESS CONTROL STATION
CR	CARD READER
CR K	CARD READER WITH KEYPAD
MA	MDA ANNUNCIATOR
MS M	MOTION SENSOR P= PIR G= GROUP SENSOR M= MICROWAVE PRX= PROXIMITY SENSOR
AB	ALARM BELL X= ALARM TYPE Y= MOUNTING F= FIRE ALARM F= FLUSH MOUNTED H= HFM ALARM S= SURFACE MOUNTED
	4" SQUARE SPEAKER
	4" SQUARE SPEAKER ISTROBE W/CANDELA RATING
	4" ROUND CEILING MOUNTED SPEAKER
	4" ROUND CEILING MOUNTED SPEAKER ISTROBE W/CANDELA RATING
	EVACUATION STROBE W/CANDELA RATING
	IN DATA CENTRE 8" ROUND SPEAKER ISTROBE W/CANDELA RATING
	SUPPRESSION STROBE W/CANDELA RATING

LIFE SAFETY SYMBOLS 2/3

SYMBOL	DESCRIPTION
	HEAT DETECTOR F= FIXED TEMPERATURES R= RATE OF RISE R/C= RATE COMPENSATED R/F= COMBINATION
BT	SMOKE DETECTOR BT= BEAM TRANSMITTER BR= BEAM RECEIVER P= PHOTOELECTRIC I= IONIZATION E= INSTALLED IN EQUIPMENT
DT	SMOKE DETECTOR IN DUCT
C	C= CONTROL MODULE, CT= MONITOR MODULE I= GENERAL INTERFACE, GS/O= GAS SHUTOFF VALVE. CR= CONTROL RELAY MODULE, S= SUPERVISORY MODULE
EOL	END OF LINE DEVICE
WFM	WATERFLOW/TAMPERSWITCH MODULE
M	MANUAL CALL POINT

LIFE SAFETY SYMBOLS 3/3

SYMBOL	DESCRIPTION
LLD	LIQUID LEAK DETECTION
LCD	LIQUID CRYSTAL DISPLAY
GA	GRAPHIC ANNUNCIATION
VESDA	VESDA DETECTOR
FAP	FIRE ALARM PANEL
FM200	FM200 CONTROL PANEL
CABINET	ESF CABINET CONTAINING INTERFACE RELAYS X= NUMBER OF INTERFACE ADDRESSES REQUIRED.
PS	FM200 PRESSURE SWITCH
ES	EMERGENCY SHOWER PROXIMITY SWITCH

3 LIFE SAFETY SYMBOLS 3/8

SYMBOL	DESCRIPTION
	NOTE 1: ALL SYMBOLS SHOWN ARE NOT NECESSARILY USED ON THIS PROJECT.
	NOTE 2: ALL SYMBOLS SHOWN ARE NOT NECESSARILY SHOWN ON ALL DRAWINGS.
	NOTE 3: BACK COVERS TO BE PROVIDED ON ALL LUMINAIRES IN SERVER ROOMS.

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REV	DESCRIPTION	BY DATE	CHECKED	ISSUE DATE
RD	RECORD DRAWING	KS 18.10.06		

RECORD DRAWING

KEY PLAN

ENGINEER	DRAWN	DATE	CHECKED	DATE
KS	SEB	18.10.06		

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QUANTITY	
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DRAWING TITLE: ELECTRICAL LEGEND

Matthew Hall

DRAWING NUMBER: 55609/RD/E/00010

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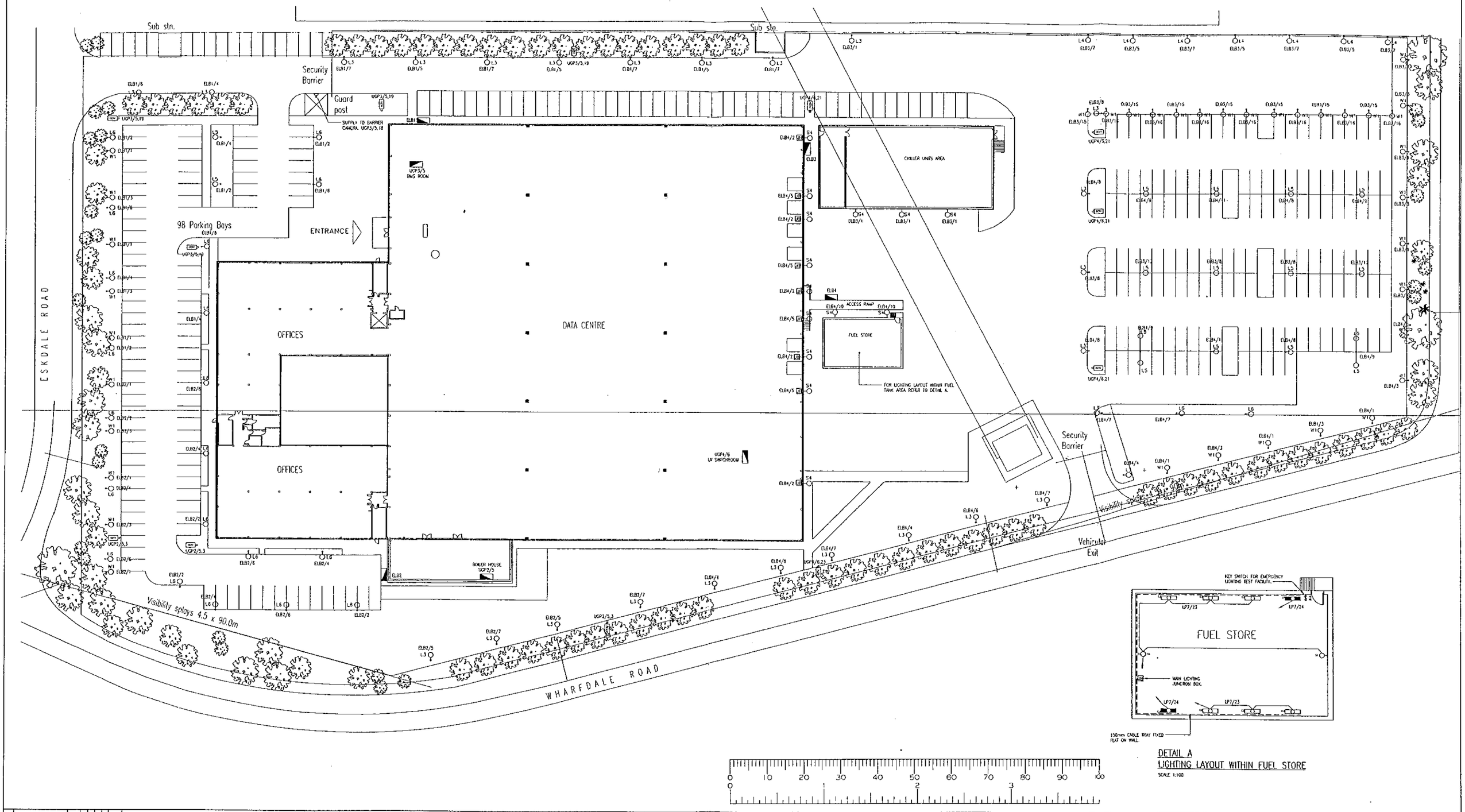

DETAIL A
LIGHTING LAYOUT WITHIN FUEL STORE
SCALE 1:100

REV	DESCRIPTION	BY DATE	M	E	P	F	ISSUE DATE
A0	RECORD DRAWING	10/07/01					

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RECORD DRAWING

KEY PLAN

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K.B.	J.F.S.	18.1.00		

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DRAWING TITLE
EXTERNAL LIGHTING LAYOUT

Matthew Hall

DRAWING NUMBER
55600/RD/E/7018

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SCALE: 1:250

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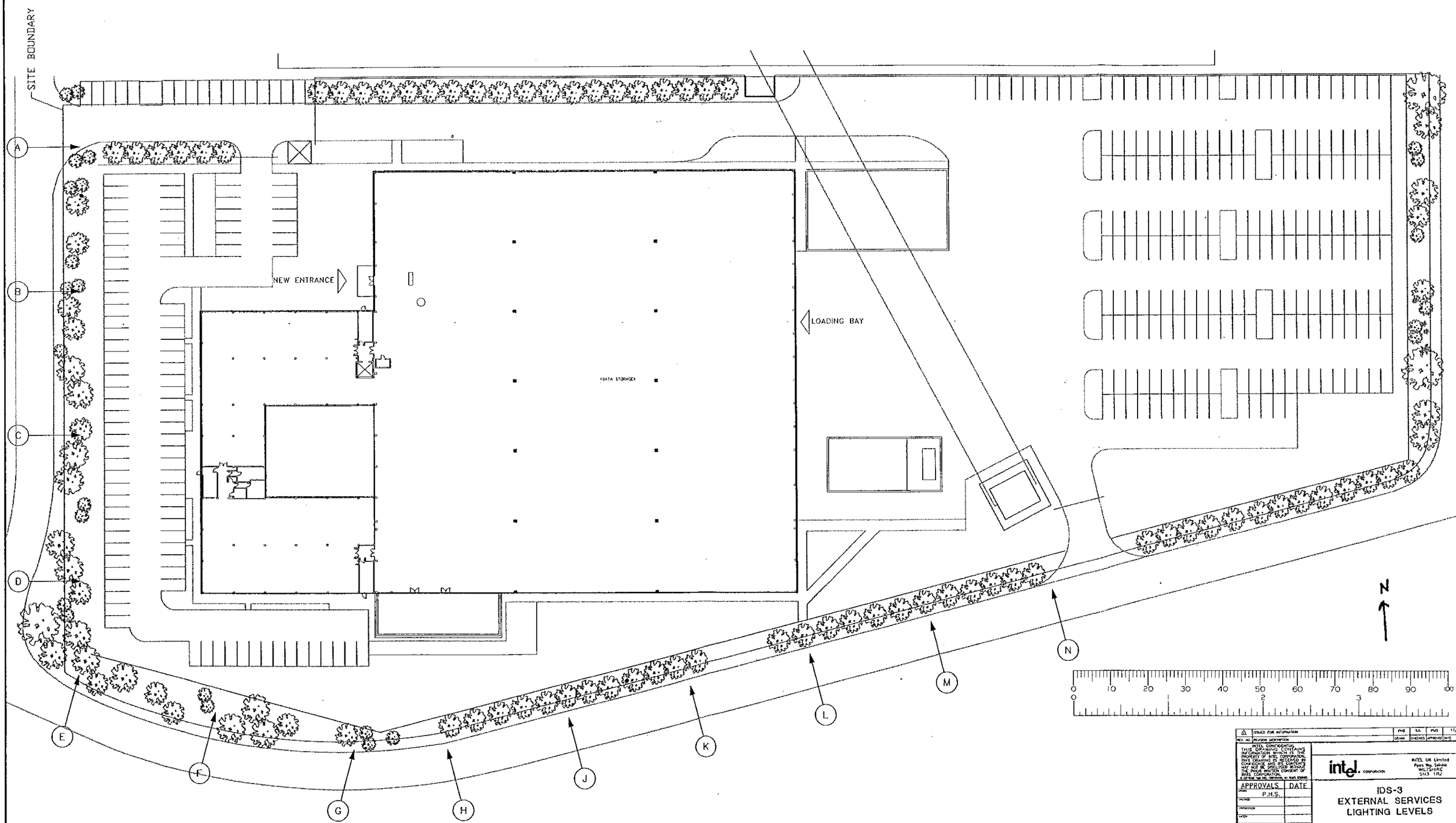
LIGHTING REFERENCE POINT	LUX LEVEL: LIGHTS ON	LUX LEVEL: LIGHTS OFF (AMBIENT LEVEL)
A	11.9	5.8
B	9.7	5.5
C	14.8	7.1
D	8.3	5.2
E	14.8	7.5
F	18.5	8.0
G	22.4	5.9
H	18.1	5.2
J	28.8	3.8
K	28.3	18.5
L	9.3	8.3
M	13.5	12.5
N	14.3	13.9



REV. NO.	REVISION DESCRIPTION	DRAWN	CHECKED	APPROVED	DATE
A	ISSUED FOR INFORMATION	PHS	S.A.	PHS	17/11

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P.H.S.	

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EXTERNAL SERVICES LIGHTING LEVELS

DRAWING NO.	PLOT SCALE	DRAWING SCALE	SHEET
W3E-7019	1:1	1:250	1 OF 1