

D49401/D Joseph Norton Academy SEMH - (Kirkles School Deighton)

Colour Temperature (K)	Qty	Range	Light Source	Luminaire Lumen (lm)	Watts (W)	lm/W	LCR	Total Lumens	LCR	Upward Lumens	CRF	Hours Per Day	CO2 (tonnes)	kWh/Year
2700	18	Viva City PRO	Viva LED FW70	5000	40	125.00	100%	90000	0.4%	0	>70	12	0.59	2002.00
2700	4	Viva City PRO	Viva LED AY70	5570	40	139.25	100%	22284	0.4%	0	>70	12	0.15	706.80
2700	43	Viva City PRO	20w LED FW70	2550	20	127.50	100%	10796	0.4%	0	>70	12	0.77	3076.20
2700	7	Semita Urban	6w LED OC	887	6	147.83	100%	6223	0.4%	0	>70	12	0.04	183.96
2700	2	Viva City PRO Flood	30w LED AY70 (Flood)	7866	60	131.43	100%	15872	0.4%	0	>70	12	0.11	325.80
2700	1	Pixel Wall	Pixel Wall 34w LED	325	14	23.21	100%	325	0.4%	0	>70	12	0.01	63.22

Table 1 Compliance	Environmental Zone	Day Glow	Noise Intensity (Candela)	Pre-Curtain	Light Trespass Into Windows (Lux)	Building Cessante (h/d/y)
E3	E3	Target 0.00%, Achieved 0.00%	15,000	0.00%	2	10

CO2 Calculation For A Year
Total Installation Lumens: 222828.00
Total Upward Light: 0.00%
Total CO2 Per Year (tonnes): 1.87
Total Electric Consumption (kWh): 1.82
Total Electric Consumption Per Year (kWh): 2964.88
Average Luminaire Lumens Per Circuit Watt: 127.06



THIS DRAWING IS FOR INFORMATION ONLY
DO NOT SCALE

CDM REGULATIONS

REFER TO THE LATEST REVISION OF THE MECHANICAL & ELECTRICAL SERVICES DESIGN RISK ASSESSMENT

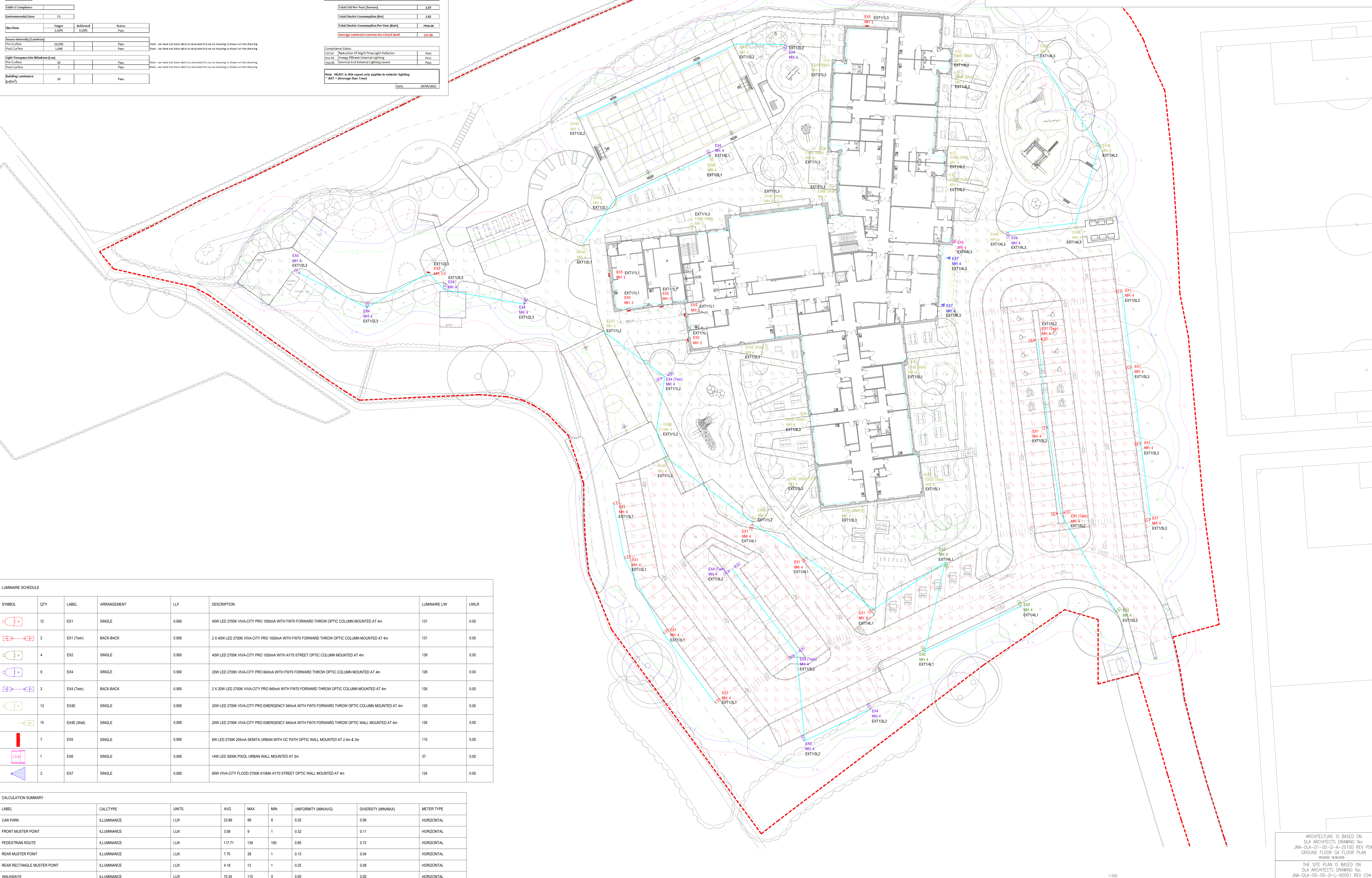
ABNORMAL HAZARDS

DRAWING SUITABILITY CODES

SI - INITIAL STATUS
S1 - SUITABLE FOR COORDINATION
S2 - SUITABLE FOR REVIEW & COMMENT
S3 - SUITABLE FOR STAGE APPROVAL
S4 - SUITABLE FOR AN AUTHORIZATION
S5 - AUTHORIZED AND ACCEPTED
D1 - SUITABLE FOR COSTING
D2 - SUITABLE FOR TENDER
D3 - SUITABLE FOR CONTRACTOR DESIGN
D4 - SUITABLE FOR MANUFACTURE / PRODUCTION
D5 - AS CONSTRUCTED RECORD DOCUMENT

NOTES

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH THE M&E SPECIFICATION AND ALL LATEST ARCHITECTS AND ENGINEERS DRAWINGS



SYMBOL	QTY	LABEL	ARRANGEMENT	LLF	DESCRIPTION	LUMINAIRE LW	LUMR
[Symbol]	12	EX1	SINGLE	0.900	40W LED 2700K VIVA-CITY PRO 1050mA WITH FW70 FORWARD THROW OPTIC COLUMN MOUNTED AT 4m	131	0.00
[Symbol]	2	EX1 (Twin)	BACK-BACK	0.900	2 X 40W LED 2700K VIVA-CITY PRO 1050mA WITH FW70 FORWARD THROW OPTIC COLUMN MOUNTED AT 4m	131	0.00
[Symbol]	4	EX2	SINGLE	0.900	40W LED 2700K VIVA-CITY PRO 1050mA WITH AY70 STREET OPTIC COLUMN MOUNTED AT 4m	139	0.00
[Symbol]	9	EX3	SINGLE	0.900	20W LED 2700K VIVA-CITY PRO 840mA WITH FW70 FORWARD THROW OPTIC COLUMN MOUNTED AT 4m	126	0.00
[Symbol]	3	EX4 (Twin)	BACK-BACK	0.900	2 X 20W LED 2700K VIVA-CITY PRO 840mA WITH FW70 FORWARD THROW OPTIC COLUMN MOUNTED AT 4m	126	0.00
[Symbol]	13	EX4E	SINGLE	0.900	20W LED 2700K VIVA-CITY PRO EMERGENCY 840mA WITH FW70 FORWARD THROW OPTIC COLUMN MOUNTED AT 4m	126	0.00
[Symbol]	15	EX4E (Twin)	SINGLE	0.900	20W LED 2700K VIVA-CITY PRO EMERGENCY 840mA WITH FW70 FORWARD THROW OPTIC WALL MOUNTED AT 4m	126	0.00
[Symbol]	7	EX5	SINGLE	0.900	6W LED 2700K 205mA SEMITA URBAN WITH OC PATH OPTIC WALL MOUNTED AT 2.4m & 3m	115	0.00
[Symbol]	1	EX6	SINGLE	0.900	14W LED 3000K PIXEL URBAN WALL MOUNTED AT 3m	37	0.00
[Symbol]	2	EX7	SINGLE	0.900	60W VIVA-CITY FLOOD 2700K 610MA AY70 STREET OPTIC WALL MOUNTED AT 4m	124	0.00

CALCULATION SUMMARY								
LABEL	CALC TYPE	UNITS	AVG	MAX	MIN	UNIFORMITY (MIN/AVG)	DIVERSITY (MIN/MAX)	METER TYPE
CAR PARK	ILLUMINANCE	LUX	23.86	99	6	0.25	0.06	HORIZONTAL
FRONT MUSTER POINT	ILLUMINANCE	LUX	3.08	9	1	0.32	0.11	HORIZONTAL
PEDESTRIAN ROUTE	ILLUMINANCE	LUX	117.71	139	100	0.85	0.72	HORIZONTAL
REAR MUSTER POINT	ILLUMINANCE	LUX	7.70	28	1	0.13	0.04	HORIZONTAL
REAR RECTANGLE MUSTER POINT	ILLUMINANCE	LUX	4.18	13	1	0.25	0.08	HORIZONTAL
WALKWAYS	ILLUMINANCE	LUX	15.34	115	0	0.00	0.00	HORIZONTAL

REV	DATE	AMENDMENTS	BY	DD
CO1	14.05.20	ISSUED FOR CONSTRUCTION	SM	BY
PO1	25.11.20	UPDATED TO NEW LANDSCAPE LAYOUT	SM	BY
PO2	22.10.20	FOR REVIEW & COMMENT	SM	BY
PO1	18.09.20	PRELIMINARY ISSUE	SM	BY

CONSTRUCTION ISSUE

Commercial Services Design Ltd
Woodside Court
Clayton Road Rise
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Web: www.csdesign.co.uk

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CLIENT
JOSEPH NORTON ACADEMY
HUDDERSFIELD

TITLE
ELECTRICAL SERVICES
EXTERNAL LIGHTING LAYOUT

DATE
11.12.2023

SCALE
AS SHOWN

PROJECT NO
JNA-GAH-00-XX-D-E-6322

REVISIONS
NO. DATE DESCRIPTION BY

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