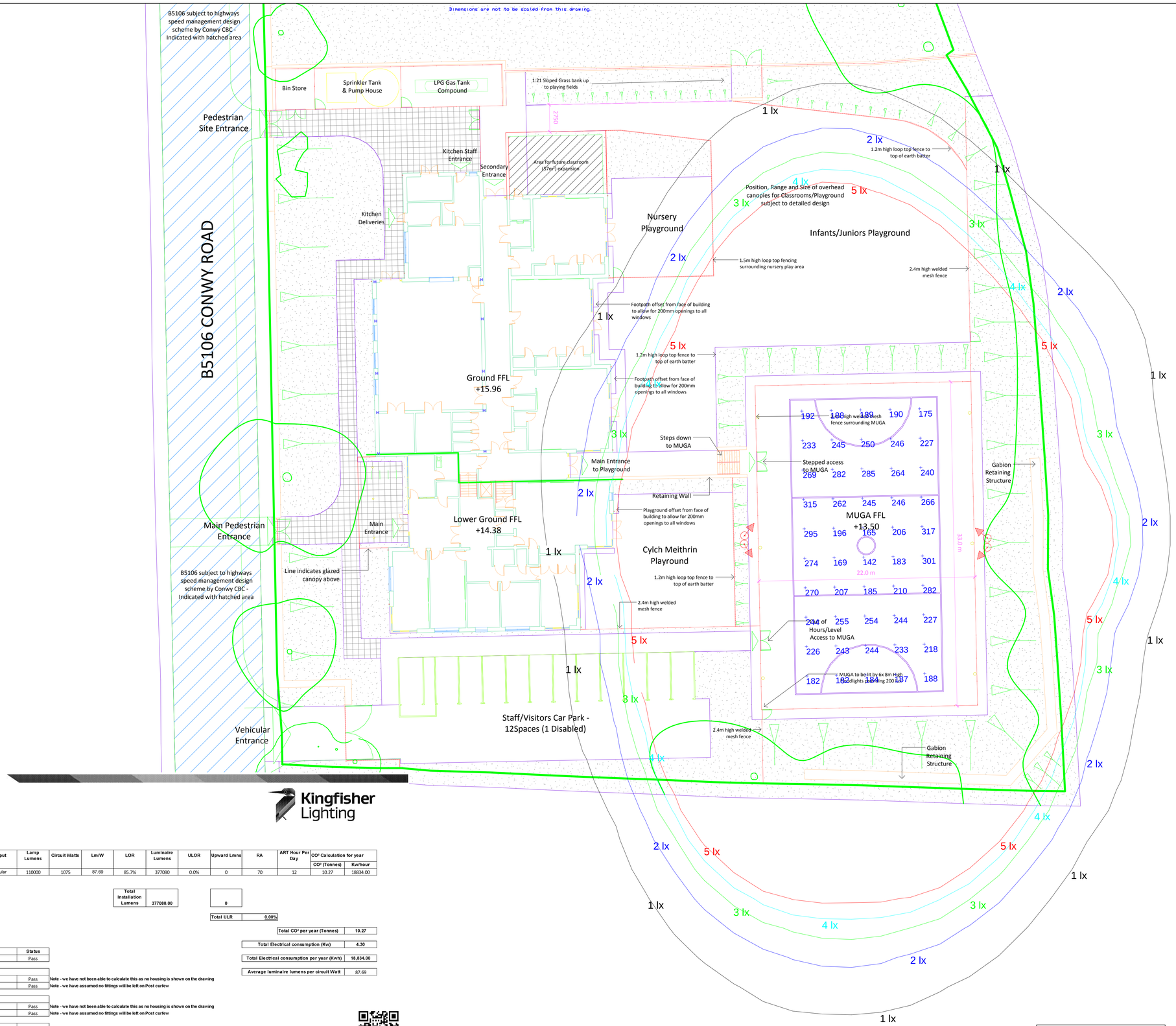

Revision	Date	Description	Initials

Kingfisher Lighting

For our LED lighting designs a 0.9mf has been used. If this differs from the maintenance period for this project then you must advise us accordingly

Members Of

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Project Title

Project Title

Scale	Project No
1:200 at A1	D30219
Date	**Drawing No**
4/4/2017	D30219/JM/A

A lighting applications design service is provided by us in good faith and without charge, relating to Kingfisher products only. As such, whilst every endeavor is made for accuracy from information provided by yourselves, the final responsibility for the suitability of the design lies with the client. The company cannot, therefore, accept any liability or consequential loss incurred.

Lighting Designer :James Miles MSLL

BREEAM

D30219 - Ysgol Caerhun School

Qty	Range	LED Output	HID Lamp Output	Lamp Lumens	Circuit Watts	Lm/W	LOR	Luminaire Lumens	ULOR	Upward Lmns	RA	ART Hour Per Day	CO² Calculation for year	
													CO² (Tonnes)	Kwthour
4	Scorpius	Please Select	1000w HPI Tubular	110000	1075	87.69	85.7%	377080	0.0%	0	70	12	10.27	18834.00

Total Installation Lumens	
	377080.00

0

Total ULR	0.00%

Table 1 compliance	
Environmental zone	E3

Total CO² per year (Tonnes)	10.27
Total Electrical consumption (Kw)	4.30
Total Electrical consumption per year (Kwh)	18,834.00
Average luminaire lumens per circuit Watt	87.69

Sky Glow	Target	Achieved	Status
	5.00%	0.00%	Pass

Source Intensity (candelas)				
Pre curfew	10,000	0	Pass	Note - we have not been able to calculate this as no housing is shown on the drawing
Post curfew	1,000	0	Pass	Note - we have assumed no fittings will be left on Post curfew

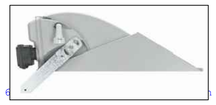
Light Trespass into windows (Lux)				
Pre curfew	10	0	Pass	Note - we have not been able to calculate this as no housing is shown on the drawing
Post curfew	2	0	Pass	Note - we have assumed no fittings will be left on Post curfew

Building Luminance (cd/m²)	10

Compliance Status:		
Pol 04	Reduction of night time light pollution	Pass
Ene 03	Energy efficent external lighting	Pass
Hea 01	Internal and external lighting levels	Pass

The criteria for a design to achieve the ENE 03 credit have now changed. Designs are now required to achieve an average of 60 luminaire lumens per circuit watt. This affects the type of fitting and light source that can be used, Please ensure that this is considered when comparing this drawing to previous designs or designs by others. For more information contact our lighting design department or go to : http://goo.gl/VGQJNy (BREEAM's official website)

BREEAM

Calculation Summary								
Label	CalcType	Units	Avg	Max	Min	Min/Avg	Min/Max
MUGA	Illuminance	Lux	230.44	317	142	0.62	0.45

Luminaire Schedule				
Symbol	Qty	Label	Arrangement	Description
	4	A	SINGLE	1 k w H Q I - T S c o r p i u s M e d i u m b e a m f l o o d l i g h t w i t h [illegible] n t e d a t 8 m