



- NOTES**
- All dimensions are to be checked on site before the commencement of works. Any discrepancies are to be reported to the Architect, Structural & Electrical Engineers for verification. Figured dimensions only are to be taken from this drawing.
 - The electrical installation shall comply in full with BS7671:18th edition including all up to date amendments.
 - Lighting levels to comply with CIBSE LGS, including all up to date amendments.
 - MUGA pitches lighting levels to comply with BS EN12193, including all up to date amendments.
 - Contractor shall install luminaires as per the manufacturers recommendations for ingress protection and protection against mechanical impact.
 - Contractor to refer to Architects and landscape architects.
 - Cabling shall be via suitable XLPE/DVA/LSF suitable for external buried installation.
 - Coordination of services shall be by the contractor. Services shall be installed so that they do not clash with other services and shall be located so that they can be easily maintained.
 - Contractor to allow for ducting to external fittings.
 - This drawing has been produced for planning purposes only and is indicative only of the final design proposal.
 - The following elements are excluded from the external lighting design package: refer to Architectural work package for: illuminated signage, way finding signage, brand signage, road signage.
 - External lighting to be developed and coordinated with any landscape design as required.
 - High level luminaires shall be of forward throw and tilts to improve uniformity (maximum tilt as per I.EE guidance).

REVISIONS

REV	REVISION	DATE	CHECKED BY	DATE	APPROVED BY	DATE
PO1	Suitable for Review and Comment	12/10/23	S. Gashby	12/10/23	A. Haines	12/10/23

Hydrock
 3rd Floor, Wharfedale House
 11 Wharfedale St
 Leeds
 LS10 1SD
 t: +44(0)113 2513885
 e: sales@hydrock.com

WEP CO

CLIENT
 Bridgend Primaries | Corneli Site

TITLE
 Electrical Services
 Proposed External Lighting

HYDROCK PROJECT NO.
 C-24390

SCALE @ A3
 1:500

STATUS DESCRIPTION
 SUITABLE FOR REVIEW & COMMENT

STATUS
 S3

DRAWING NO. (PROJECT - ORIGINATOR - VOLUME - LEVEL - TYPE - ROLE - NUMBER)
 BR0201-HYD-XX-XX-DR-E-90001

REVISION
 PO1

Symbol	Label	Manufacturer	Model	Arrangement	Description	Luminaire Lumens	Luminaire Watts	Mounting Type	Mounting Height	Dimensions	Temperature
EX1	Thorn Lighting	Piazza 2	Single	IP65, IK10 vandal resistant wall mounting luminaire in anthracite (RAL 7016).	1844lm	15W	Surface Mounted	3000mm	383 x 196 x 306mm	3000K	
EX1E	Thorn Lighting	Piazza 2	Single	IP65, IK10 vandal resistant wall mounting luminaire in anthracite (RAL 7016) with emergency.	1844lm	15W	Surface Mounted	3000mm	383 x 196 x 306mm	3000K	
EX2	Thorn Lighting	R2L2	Single	Efficient LED Pole mounted luminaire with minimum waste light. IP66 and IK09.	2145lm	15W	Post Top	6000mm	655 x 362 x 155mm	3000K	
EX3	Thorn Lighting	R2L2	Single	Efficient LED Pole mounted luminaire with minimum waste light. IP66 and IK09.	2922lm	20W	Post Top	6000mm	655 x 362 x 155mm	3000K	
EX3 T	Thorn Lighting	R2L2	Back-Back	Efficient LED Pole mounted luminaire with minimum waste light. IP66 and IK09.	2922lm	20W	Post Top	6000mm	655 x 362 x 155mm	3000K	
EX4	Thorn Lighting	R2L2	Single	Efficient LED Pole mounted luminaire with minimum waste light. IP66 and IK09.	3933lm	28W	Post Top	6000mm	655 x 362 x 155mm	3000K	
EX5 T	Thorn Lighting	Areallood Pro 2	2 @ 90 degrees	A compact, lightweight, general purpose LED area floodlight. IP66, IK08 Class 1 Electrical.	46581lm	298W	Post Top	8000mm	729 x 360 x 115mm	4000K	
EX6	Thorn Lighting	Plurio	Single	Decorative post-top lantern. IP66 and IK08.	2409lm	19W	Post Top	5000mm	564dia x 567mm	3000K	

Label	CalcType	Units	Avg	Max	Min	Min/Avg
Parking & Access	illuminance	Lux	15.52	43	4	0.26
Building Perimeter	illuminance	Lux	23.67	109	7	0.30
South Entrance to School	illuminance	Lux	10.80	16	5	0.46
East Entrance to School	illuminance	Lux	10.68	25	4	0.37
Staff Car Park	illuminance	Lux	10.87	26	5	0.46
Bus Drop Off	illuminance	Lux	10.25	22	5	0.49
Path to Staff Car Park	illuminance	Lux	53.80	100	11	0.20
MUGA Pitch 1	illuminance	Lux	220.74	304	132	0.60
MUGA Pitch 2	illuminance	Lux	221.72	306	129	0.58



EX1



EX2 EX3 EX4



EX5



EX6

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