




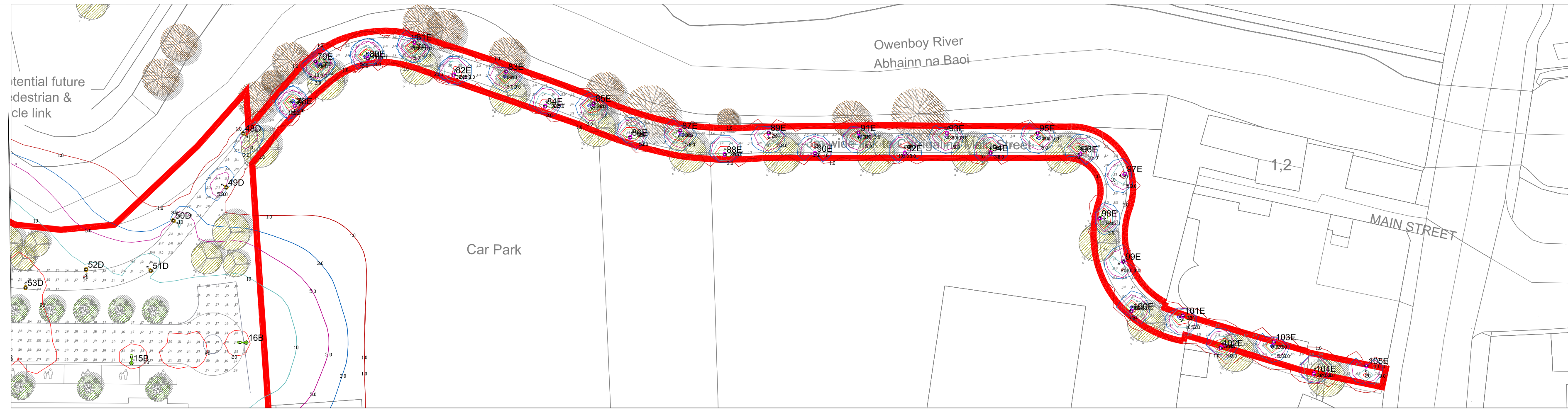


CALCULATION SUMMARY TABLE				
AREA	ACCESS ROAD	CONCOURSE	AMENITY PATH	RIVERSIDE PATH
CLASSIFICATION	C2	P3	P4	P4
AVERAGE LUX	27.02	8.16	11.45	8.98
MINIMUM LUX	10.69	2.28	1.13	1.11
MAXIMUM LUX	39.39	19.40	32.99	62.96
UNIFORMITY	0.40	0.28	0.10	0.12
DESIGN REPORT BY:	HORIZON ENGINEERING CONSULTANTS LTD			
DESIGN REPORT REF:	21151-DD-001-REVC			
DESIGN REPORT DATE:	29/04/2022			

**PUBLIC LIGHTING LEGEND:**

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**TYPE A - PHILIPS BGP704 DW50 20,000lm PROFILE U14 DIMMABLE CW 80 LED WITH 1M OUTREACH AND MOUNTED ON 76mm OCTAGONAL GALVANISED ROOTED COLUMN OF 8m HEIGHT. IP67. IK09. 35/18 LUX ON/OFF.**
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**TYPE B - PHILIPS BGP531 T35 S GRN130 13,000lm PROFILE U15 DIMMABLE LED WITH 1M OUTREACH AND MOUNTED ON 76mm GALVANISED AND PAINTED ROOTED COLUMN OF 6m HEIGHT. IP67. IK09. 35/18 LUX ON/OFF.**
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**TYPE C - PHILIPS BGP530 T35 S GRN40 4,000lm PROFILE U15 DIMMABLE LED MOUNTED ON 76mm GALVANISED AND PAINTED ROOTED COLUMN OF 5m HEIGHT. IP67. IK09. 35/18 LUX ON/OFF.**
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**TYPE D - THORLUX PASSWAY PATHWAY BOLLARD 780Lm PROFILE U16 DIMMABLE MOUNTED ON 1200mm HIGH BOLLARD. IP67. IK09.**
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**TYPE E - GEMMA WESTMINSTER CONSERVATION PATHWAY BOLLARD 500Lm 2700K. PROFILE U16 DIMMABLE MOUNTED ON 950mm HIGH BOLLARD. IP67. IK09.**



RIVERSIDE PATHWAY



REFERENCED DRAWINGS			
REV. NO.	DATE	DRAWING No.	TITLE
C	29/04/22	PL-02	PL DUCTING LAYOUT
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Notes :-

- GENERAL NOTES:**
- THIS DRAWING IS COLOUR CODED.
  - EACH SERVICE SHALL BE INSTALLED IN FULL COMPLIANCE WITH THE STANDARD DUCT AND CHAMBER DETAILS PROVIDED BY THE NETWORK UTILITY - BORD GÁS, ESB, EIR, VIRGIN, CORK COUNTY COUNCIL.
  - THE EXACT LOCATION OF SERVICES AND FITTINGS IS SUBJECT TO SITE REVIEW AND MEASURE BY THE ELECTRICAL CONTRACTOR.
  - ALL DIMENSIONS ARE IN MILLIMETERS (mm), UNLESS OTHERWISE STATED.
  - ALL EQUIPMENT DIMENSIONS AND SPECIFICATIONS SHALL BE CLARIFIED PRIOR TO INSTALLATION.
  - THE LUMINAIRE TILT ANGLE SHALL BE ADJUSTABLE FROM 0 TO 10 DEGREES. 0 DEGREES IS THE DEFAULT SETTING.
  - THE ELECTRICAL CONTRACTOR SHALL PROVIDE A STREET LIGHTING COMPLETION CERTIFICATE UPON COMPLETION AND COMMISSIONING.
  - THE ELECTRICAL INSTALLATION SHALL COMPLY WITH:
    - 8.1. IS 1010:2020
    - 8.2. THE ETCI REGULATIONS ET102 FOR EXTERNAL LIGHTING
    - 8.3. THE ESB ELECTRICAL SERVICES GUIDEBOOK.
    - 8.4. CORK COUNTY COUNCIL PUBLIC LIGHTING GUIDELINES.
  - A PHOTOCELL, AND CORRESPONDING TEST SWITCH, SHALL BE FITTED TO EACH LUMINAIRE IN COMPLIANCE WITH COUNCIL GUIDELINES.
  - THE LIGHTING COLUMN MANUFACTURER SHALL BE REGISTERED AND CERTIFIED BY NSAI
  - CABLING SHALL BE STEEL WIRE ARMOUR TYPE TO B.S.5467/1.S.273 0.6/1.0KV
  - DUCTING SHALL HAVE MINIMUM COVER AS FOLLOWS:
    - 13.1. 600mm IN GRASS MARGINS
    - 13.2. 750mm AT ROAD CROSSINGS
  - FINAL LANDSCAPING ARRANGEMENT TO BE COORDINATED WITH LAMP STANDARD LOCATIONS.

**DESIGN MEASURES TO SUIT RIVERSIDE BAT HABITAT**

- ALL LUMINAIRES USED WILL LACK UVIR ELEMENTS TO REDUCE IMPACT.
- LED LUMINAIRES WILL BE USED DUE TO THE FACT THAT THEY ARE HIGHLY DIRECTIONAL, LOWER INTENSITY, GOOD COLOUR RENDITION AND DIMMING CAPABILITY.
- A WARM WHITE SPECTRUM (<2,700 KELVINS WILL BE USED TO REDUCE THE BLUE LIGHT COMPONENT OF THE LED SPECTRUM).
- COLUMN HEIGHTS WILL BE CAREFULLY CONSIDERED TO MINIMISE LIGHT SPILL. THE SHORTEST COLUMN HEIGHT ALLOWED WILL BE USED WHERE POSSIBLE.
- ONLY LUMINAIRES WITH AN UPWARD LIGHT RATIO OF 0% AND WITH GOOD OPTICAL CONTROL WILL BE USED.
- LUMINAIRES WILL BE MOUNTED ON THE HORIZONTAL, I.E. NO UPWARD TILT.
- AS A LAST RESORT, ACCESSORIES SUCH AS BAFFLES, HOODS OR LOUVRES WILL BE USED TO REDUCE LIGHT SPILL AND DIRECT IT ONLY TO WHERE IT IS NEEDED IF DEEMED NECESSARY BY SUITABLY QUALIFIED BAT ECOLOGIST.

**COLUMN SPECIFICATION:**

- IS EN40 COMPLIANT.
- OCTAGONAL STEEL COLUMN.
- WALL THICKNESS OF MINIMUM 3mm.
- INTERNALLY & EXTERNALLY GALVANISED TO BS EN 1461.
- ROOT MOUNTED.
- BITUMEN APPLIED TO BASE, TO A HEIGHT OF 150mm ABOVE PLANTING LEVEL, INTERNALLY & EXTERNALLY.
- EARTHING CONNECTION.
- APPROVED FOR USE BY CORK CITY COUNCIL
- 25 YEAR DESIGN LIFE.

D	20/05/2022	TEXT UPDATED	TR	GS	GS	--	--	--
C	29/04/2022	REDLINE UPDATED	TR	GS	GS	--	--	--
B	26/04/2022	RIVERSIDE WALK ADDED	TR	GS	GS	--	--	--
A	30/09/2021	FOR INFORMATION	TR	GS	GS	--	--	--

REV. NO.	DATE	REVISION	DRAWN	DESIGNED	CHECKED	REVIEWED	SUBMITTED	APPROVED

PROJECT :- CARRIGALINE SHD

**DRAWING & LAYOUT SUBJECT TO UTILITY/LOCAL AUTHORITY APPROVAL**

DESIGN :-



**HORIZON ENGINEERING CONSULTANTS LTD.**  
 UNIT 18C, EURO BUSINESS PARK, LITTLE ISLAND, CORK.

DRAWING :- **PUBLIC LIGHTING DESIGN LAYOUT**

DESCRIPTION :- **RESIDENTIAL DEVELOPMENT CORK**

PROJECT NO :- 21151	DRAWING NO :- 21151-PL-01	REV :- D
SCALE :- 1:500		
SIZE :- A1		