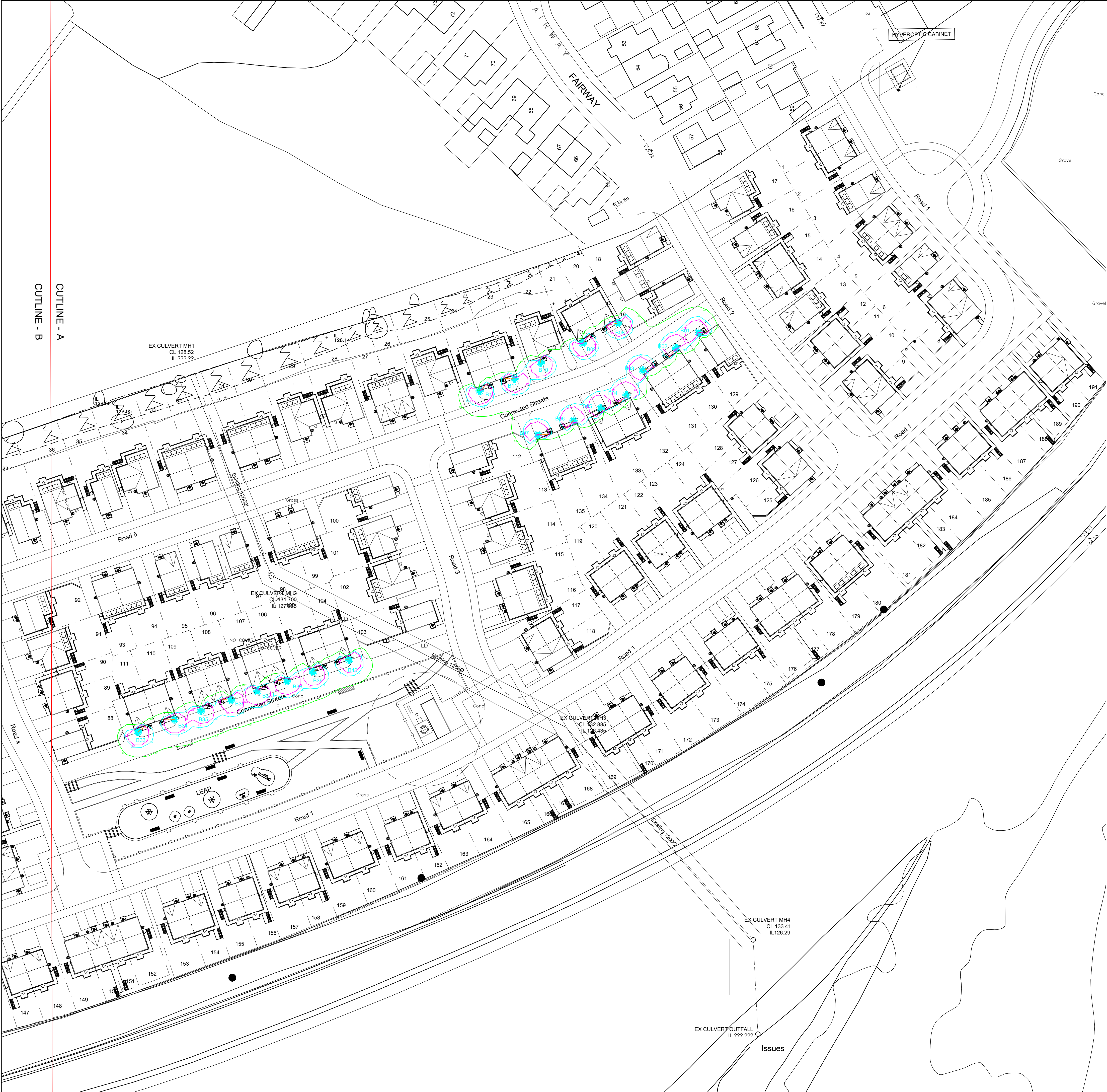




- GENERAL NOTES**
- Before construction commences, the site engineer shall ensure that all design information is mutually compatible with all other drawings and documents provided by the overseeing organisation and all drawings and documents are to be read in conjunction with one another.
 - In the event of apparent ambiguity or contradiction, SHD Lighting Consultancy Ltd and the overseeing organisation shall be notified immediately.
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- NOTES**
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 - Any inaccuracies are to be reported to the overseeing organisation immediately.
 - The information on this drawing does not account for installation considerations, site conditions or provide any form of risk assessment.
 - Electrical installation work shall be carried out in accordance with the requirements of the latest edition of the IET wiring regulations, BS 7671
 - The planting of trees near to illuminated bollards is to be avoided as future growth may inhibit lighting levels. Due to the layout of the plots and associated driveways it is inevitable that there will be conflict with proposed landscaping features.
 - Any existing trees are to be cutback, removed or relocated elsewhere to avoid interference with the bollard light output or prevent any future access or maintenance.
 - The calculation shown by this drawing assumes that the whole area being considered is in the same plane, i.e. there are no changes in gradient or elevation and no account has been taken for the blocking effect caused by buildings, trees, etc.
 - Before construction commences, the site engineer shall ensure that all setting out information is mutually compatible with all the drawings and documents provided by the designers.
 - Bollard positions indicated upon this drawing may change without prior or additional notice due to local site or environmental constraints subject to designers approval.
 - Final bollard positions shall be agreed onsite with the overseeing organisation.
 - No account is taken for the blocking effect caused by buildings, trees, etc.
 - Final illuminated bollard positions shall be agreed onsite with the overseeing organisation.
 - Illuminated bollard foundations shall be designed in accordance with the manufacturer datasheet's for the bollard foundation and soil types present.

- STATUTORY SERVICE NOTES**
- Current statutory service record plans should be obtained by the contractor / overseeing organisation before the commencement of any street lighting installation or removal works.
 - It should be assumed by the contractor that not all services have been identified during the design period. It is the responsibility of the contractor to ensure that all unidentified services are carefully located and reported.
 - The contractor shall identify the location of any overhead electrical or communication equipment prior to the undertaking of any onsite works. Should the presence of such equipment be identified, the contractor shall consult with the relevant statutory undertaker for further guidance.
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180° REAR SHIELD OPTION

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Proposed illuminated bollard of 1000mm nominal height with a planted base as supplied by Gemma Lighting finished in factory applied black RAL 9005 finish

Bollard Reference: Westminster complete with 180° rear shield supplied in factory applied black finish

Bollard Type: WBHD10-AW-00GH-950

Mounting Type: Root Mounted

Lumen Output: 0.50klm

Charge Code: 42 0010 0000 100

Luminaire Wattage: 10w

Colour Temperature: Warm White (3000K)

Control Type: Integral miniature photocell

Supply: Private cable network from house plot, complete with individual manual override switch to safely isolate bollard.

Primary Isolator: Double pole Isolator with 32A double pole switch with BS88-2 6A HRC fuse within base compartment of each bollard

Internal Wiring: Internal wiring shall be 1.5mm² PVC insulated flexible cable

Proposed 6mm² XLPE/SWA/PVC 3 core cable with copper conductors, laid in 100mm orange UPVC ducting denoted with 'STREET LIGHTING' at 1000mm intervals diametrically opposed, laid in trench, depth to invert to be minimum 450mm in footway and minimum 750mm in carriageway.

Cable locations shown as indicative only and will change during installation / location of house plot consumer unit. Cable lines shown only to indicate which house plot each bollard shall be connected to.

UNIT IDENTIFICATION KEY

B** Private illuminated bollard identification number

ISOLUX CONTOUR KEY

- 0.20 Isolux contour line
- 0.60 Isolux contour line
- 1.00 Isolux contour line
- 2.00 Isolux contour line



GEMMA LIGHTING WESTMINSTER BOLLARD
(SHOWN IN GRAPHITE GREY RAL 7024)

R1	CHANGED BOLLARD MAKE AND MODEL	28/10/2024	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	23/09/2024	SRH
REV	DESCRIPTION	DATE	BY
SHD			
info@shdlighting.co.uk ☎ 07834 490 192 🌐 www.shdlighting.co.uk			
SCHEME:	CASTLETON SIDING, ROCHDALE		
DRAWING:	PRIVATE BOLLARDS		
CLIENT:	KELLEN HOMES		
DRAWING NUMBER:	SHD1985-SHD-HLG-CAST-DRAWED-Layout R1	DRAWN:	SRH
	SHEET 1 OF 3	CHECKED:	SRH
CONTRACT NUMBER:	SHD1685	APPROVED:	
	DATE: 23/09/2024	SCALE @ A1	1:500
		REVISION:	R1
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			



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180° REAR SHIELD OPTION

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Bollard Reference: Westminster complete with 180° rear shield supplied in factory applied black finish

Bollard Type: WBHD10-AW-00GH-950

Mounting Type: Root Mounted

Lumen Output: 0.50klm

Charge Code: 42 0010 0000 100

Luminaire Wattage: 10w

Colour Temperature: Warm White (3000K)

Control Type: Integral miniature photocell

Supply: Private cable network from house plot, complete with individual manual override switch to safely isolate bollard.

Primary Isolator: Double pole Isolator with 32A double pole switch with BS88-2 6A HRC fuse within base compartment of each bollard

Internal Wiring: Internal wiring shall be 1.5mm² PVC insulated flexible cable

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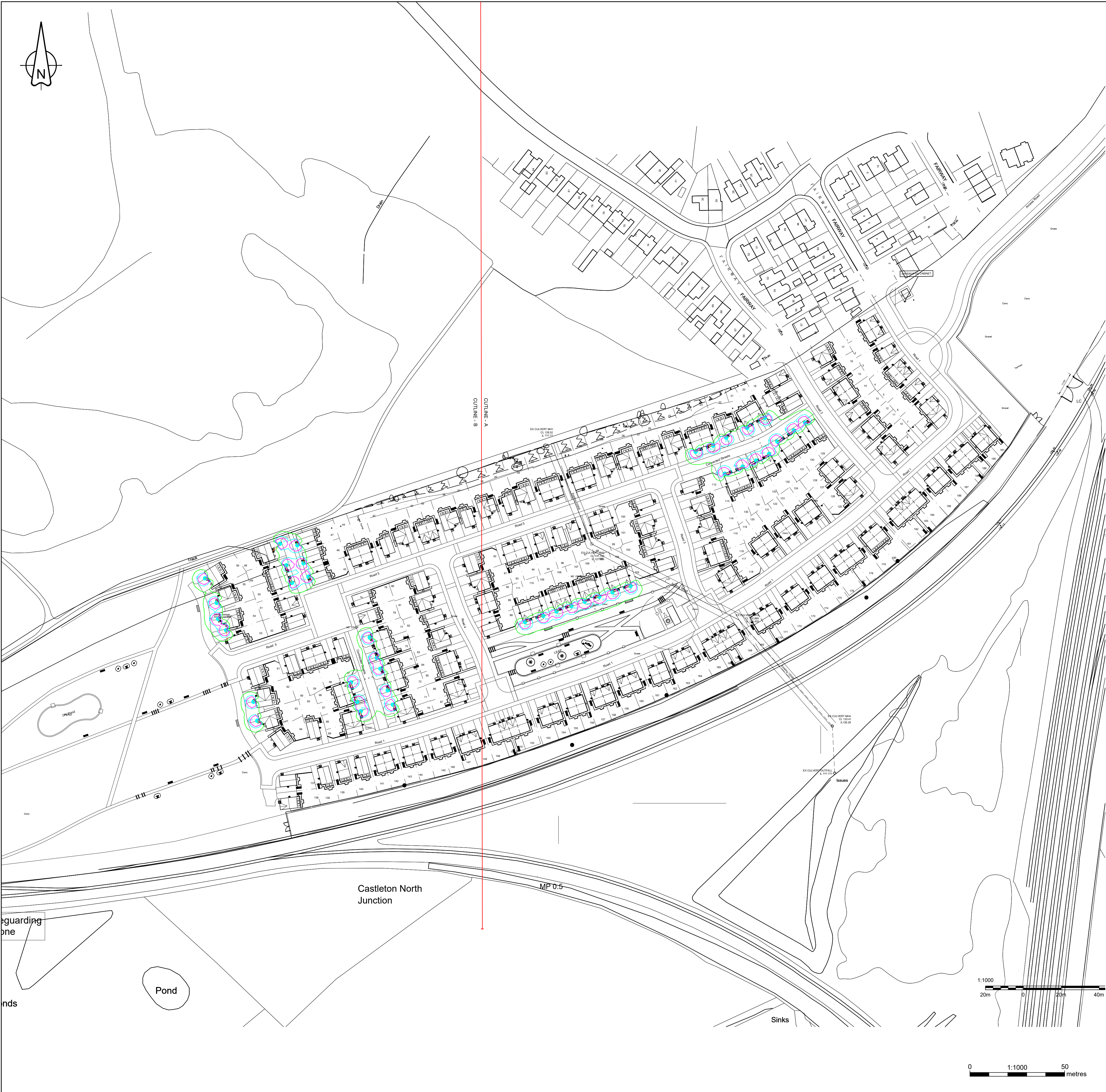
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GEMMA LIGHTING WESTMINSTER BOLLARD
(SHOWN IN GRAPHITE GREY RAL 7024)

R1	CHANGED BOLLARD MAKE AND MODEL	28/10/2024	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	23/09/2024	SRH
REV	DESCRIPTION	DATE	BY
SHD			
info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk			
SCHEME:	CASTLETON SIDING, ROCHDALE		
DRAWING:	PRIVATE BOLLARDS		
CLIENT:	KELLEN HOMES		
DRAWING NUMBER:	SHD1985-SHD-HLG-CAST-D-RED- Lighting Layout R1	DRAWN:	SRH
	SHEET 2 OF 3	CHECKED:	SRH
CONTRACT NUMBER:	SHD1685	APPROVED:	
	DATE: 23/09/2024	SCALE @ A1: 1:500	REVISION: R0
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			



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Bollard Reference:	Westminster complete with 180° rear shield supplied in factory applied black finish
Bollard Type:	WBHD10-AW-00GH-950
Mounting Type:	Root Mounted
Lumen Output:	0.50klm
Charge Code:	42 0010 0000 100
Luminaire Wattage:	10w
Colour Temperature:	Warm White (3000K)
Control Type:	Integral miniature photocell Private cable network from house plot, complete with individual manual override switch to safely isolate bollard.
Supply:	
Primary Isolator:	Double pole Isolator with 32A double pole switch with BS88-2 6A HRC fuse within base compartment of each bollard
Internal Wiring:	Internal wiring shall be 1.5mm² PVC insulated flexible cable
Proposed 6mm² XLPE/SWA/PVC 3 core cable with copper conductors, laid in 100mm orange UPVC ducting denoted with 'STREET LIGHTING' at 1000mm intervals diametrically opposed, laid in trench, depth to invert to be minimum 450mm in footway and minimum 750mm in carriageway.	
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UNIT IDENTIFICATION KEY B** Private illuminated bollard identification number	
ISOLUX CONTOUR KEY 0.20 Isolux contour line 0.60 Isolux contour line 1.00 Isolux contour line 2.00 Isolux contour line	



GEMMA LIGHTING WESTMINSTER BOLLARD
(SHOWN IN GRAPHITE GREY RAL 7024)

R1	CHANGED BOLLARD MAKE AND MODEL	28/10/2024	SRH
R0	INITIAL DESIGN FOR REVIEW AND COMMENT	23/09/2024	SRH
REV	DESCRIPTION	DATE	BY

SHD

info@shdlighting.co.uk 07834 490 192 www.shdlighting.co.uk

SCHEME:	CASTLETON SIDING, ROCHDALE		
DRAWING:	PRIVATE BOLLARDS		
CLIENT:	KELLEN HOMES		
DRAWING NUMBER:	SHD1985-SHD-HLG-CAST-DR-RED-Lighting Layout R1	DRAWN:	SRH
	SHEET 3 OF 3	CHECKED:	SRH
CONTRACT NUMBER:	SHD1685	APPROVED:	
	DATE: 23/09/2024	SCALE @ A1: 1:500	REVISION: R0
PRELIMINARY DESIGN - NOT FOR CONSTRUCTION			