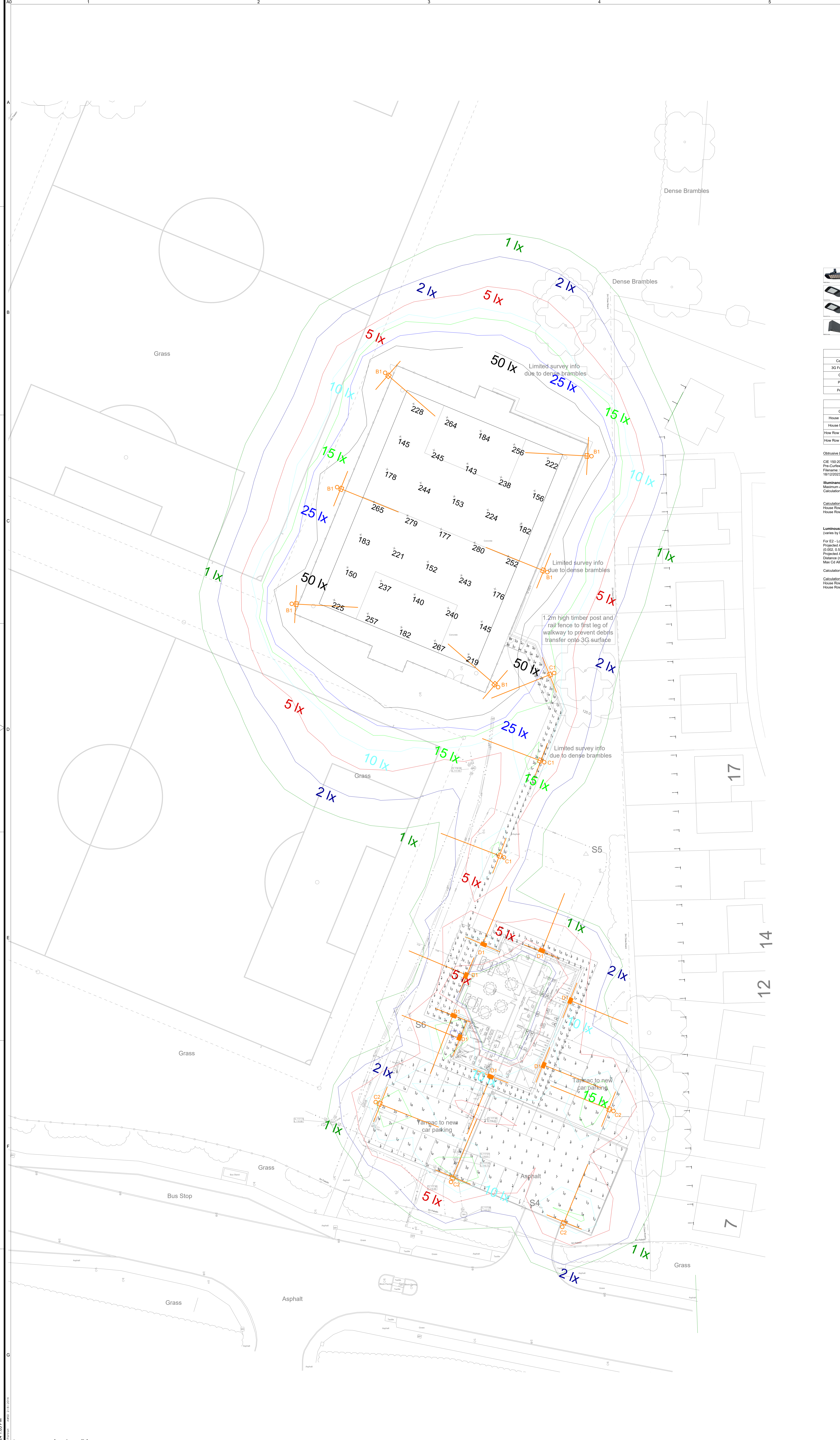


- NOTES**
1. Do not scale. All dimensions are in millimetres unless stated otherwise.
 2. This drawing to be used only for the specific services intended.
 3. This drawing to be read in conjunction with all other relevant drawings, engineering and architectural specifications.
 4. This drawing should be viewed & printed in colour.



SYMBOL LEGEND

	KINGFISHER 450W LED 4000K ANNIS MATCH WITH WEST ASYMMETRIC OPTIC. FITTING MOUNTED ON 6m COLUMN. 145 LUMEN. UWL/R 0.00
	KINGFISHER 10W LED 4000K VVA-CITY PRO 400mA WITH AY70 STREET OPTIC. FITTING MOUNTED ON 4m COLUMN. 118 LUMEN. UWL/R 0.00
	KINGFISHER 20W LED 4000K VVA-CITY PRO 80mA WITH FW70 FORWARD THROW OPTIC. FITTING MOUNTED ON 4m COLUMN. 132 LUMEN. UWL/R 0.00
	WALL MOUNTED FITTING. KINGFISHER SEMITA URBAN WTC PATH OPTIC 6W 4000K 205mA MOUNTED AT 3m HEIGHT. 136 LUMEN. UWL/R 0.00

UWL/R - Upward Waste Light Ratio

Horizontal Illuminance (lux)

Calculation	Average	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)
3G Football Pitch	210.06	280	140	0.67	0.50
Carpark	9.49	23	3	0.32	0.13
Pathway	9.73	19	3	0.31	0.16
Perimeter	12.92	33	4	0.31	0.12

Obtrusive lighting calculation - Pre-curtain Vertical-Perpendicular

Calculation	Units	Average	Max	Min	Uniformity (Min/Avg)	Diversity (Min/Max)
House Row 1 Seg 1 (C6)	NA	649.33	1011	347	0.53	0.34
House Row 1 Seg 2 (C6)	NA	381	623	94	0.25	0.10
House Row 1 Seg 1 (Illuminance)	Lux	1.00	2	0	0.00	0.00
House Row 1 Seg 2 (Illuminance)	Lux	0.53	4	0	0.00	0.00

Obtrusive Light - Compliance Report
 CIE 150:2017, E2-Low District Brightness, Pre-Curtain
 Please see 51438 Charlie Wayman Fields and Miners Welfare, football 18/12/2023 14:31:37

Illuminance
 Maximum Allowable Value: 5 Lux
 Calculations Tested (2):

Calculation Label	Test Results	Max. Illuminance
House Row 1 Seg 1 Illuminance	PASS	2
House Row 1 Seg 2 Illuminance	PASS	4

Luminance Intensity (Cd) At Vertical Planes Maximum Allowable Value calculated from CIE 150:2017 (varies by Projected Area sq m and Distance Factor)

For E2 - Low District Brightness
 Projected Area and Distance Factor:
 (0.002, 0.27) (0.01, 1.3) (0.003, 2.3) (0.13, 5) (0.5, 10)
 Projected Area (sq m) = Approx. projected emitting area of luminaire in direction of observer
 Distance (m) = Distance from luminaire to observer
 Max Cd Allowed = Projected Area Factor * Distance

Calculations Tested (2):

Calculation Label	Test Results
House Row 1 Seg 1 (Cd)	PASS
House Row 1 Seg 2 (Cd)	PASS

PRELIMINARY

P1	03.01.24	KC	PRELIMINARY ISSUE	ZT	ZT
Rev	Date	Drawn	Description	Chk'd	App'd

greenways
 Building Services Consultants
 BEDFORD COLLEGE, 20-24 BEDFORD STREET
 LEAMINGTON SPA, WARWICKSHIRE CV32 2DZ
 TEL: 01926 371028 374330
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 Email: office@greenways.co.uk

Client:
**CHARLIE WAYMAN FIELDS AND MINERS WELFARE SITES
 CHILTON WAY, FERRYHILL
 DL17 0HJ**

Title:
**PROPOSED CHARLIE WAYMAN SITE
 EXTERNAL LIGHTING
 3G PITCH, CLUBHOUSE AND CAR PARK**

Designed	KF	Drawn	KC	Approved	ZT
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Scale at A0: **1:200**
 CAD NAME: **GBSC-E500**

Drawing No: **2365-E500** Rev: **P1**