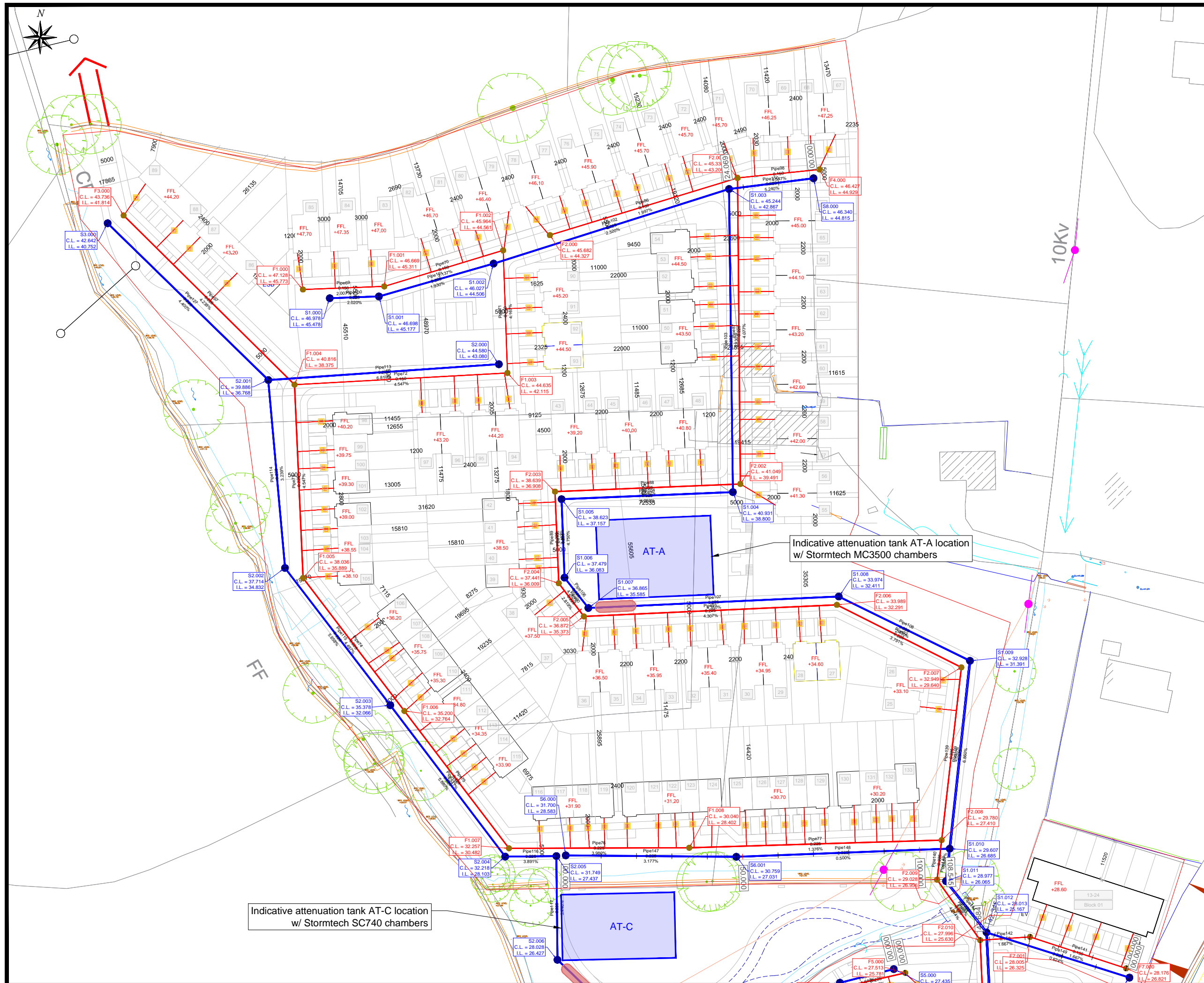


An architectural rendering of a modern residential development. On the left is a multi-story brick building with large windows and balconies. In the center is a parking lot with several cars. To the right is a green lawn with a playground and a few people walking. The entire scene is overlaid with a semi-transparent green filter.

APPENDIX 06

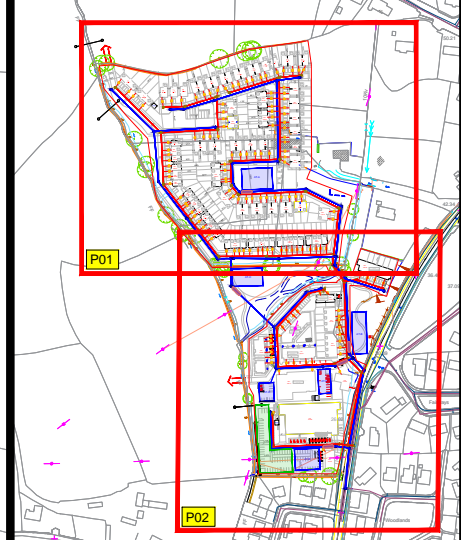
Material Assets – Services, Infrastructure & Utilities

- Appendix 6-1 – Proposed Pipe Network Layout– MHL & Associates
- Appendix 6-2 – Proposed Flood Storage Layout - MHL & Associates
- Appendix 6-3 – Proposed Watermain Layout – MHL & Associates
- Appendix 6-4 – Proposed Public Lighting Layout – Lighting Reality



NOTES:

All dimensions in meters.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.
All works to be carried out to Irish Water standard details and codes of practice.
All pipes to be uPVC type as per section 3.13. of the IW Code of Practice for Wastewater Infrastructure.
Unplasticised PVC pipes and fittings shall comply with the provisions IS EN 1401 2009/2012. Pipes to be application area code "UD", Stiffness Class 8kN/m². Provision for jetting shall be based on the WRC Sewer Jetting Code of Practice June 1997. Pipes to be capable of resisting a maximum jetting pump pressure of 2,600psi (180 Bar) without damage. (Sewer diameters 150mm up to 450mm, Service Connections of 100mm diameter)
Bedding and trench detail as per STD-WW-07 and STD-WW-08.
All manhole to be 1.2m internal diameter and precast concrete as per detail on Irish Water drawing STD-WW-10.
The minimum pipe size for Gravity Sewer where more than 20 housing units are connected is 225mm diameter subject to hydraulic design capacity assessment requirement.
MH-F2.003 and MH-F2.010 Manhole Type 1 as per detail STD-WW-12
Root Barriers to be implemented in accordance with STD-WW-06A. Reference also should be made to BS5837, BS 8545 and the NJUG guidelines volume 4 for further information




Rev	By	Date	Description
A	SM	05/11/20	Adjusted outfall of network S1, S8, F1, F2
B	SM	08/12/20	Updated per revised architect layout
C	SM	09/12/20	Adjusted depth of network S2, S6, F1, F2
D	SM	16/06/21	Adjusted network S7, F7 per road align.

Drawing Status: **PLANNING**
NOT CERTIFIED FOR CONSTRUCTION

Project Title: Cloghroe Development

Drawing Title: Overall Pipe Network Plan
Sheet 1 of 2

Client: Cloghroe Development Limited

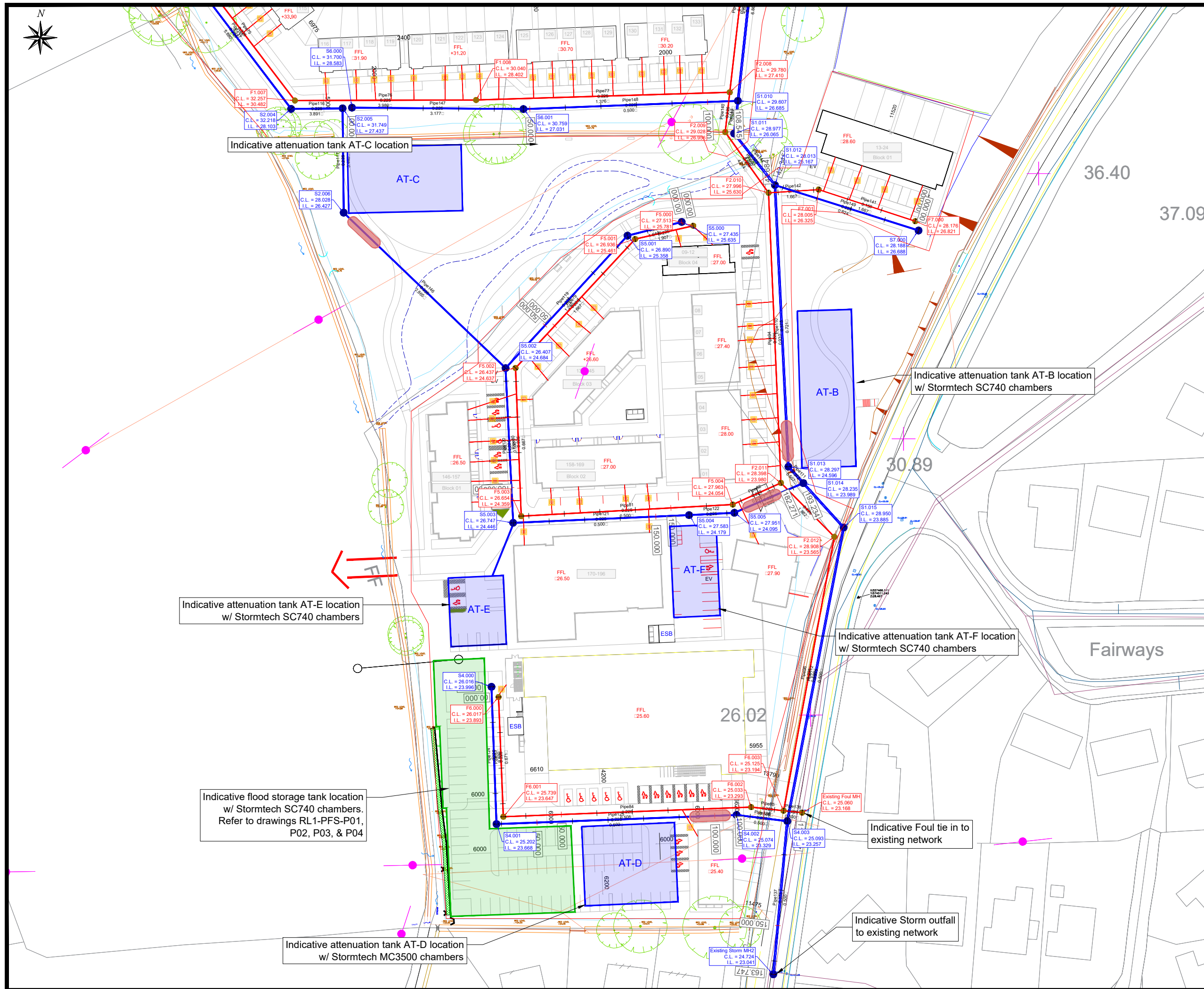


M.H.L & Associates Ltd.
Consulting Engineers

Carrig Mór House,
10 High Street,
Douglas Road,
Cork

Tel: 021-4840214
Fax: 021-4840215
E-Mail: info@mhl.ie

Designed: SM	Drawn: SM	Checked: KM
Scale: 1:500 @ A1 1:1000 @ A3	Date: October 2020	
Job No: 19083HD	Drawing No: RL1-OPN-P01	Revision: D



NOTES:

All dimensions in meters.
Do not scale from drawing.

For any discrepancies found please consult with design office.

This drawing should be read in conjunction with all contract drawings, documents and specifications.

All works to be carried out to Irish Water standard details and codes of practice.

All pipes to be uPVC type as per section 3.13. of the IW Code of Practice for Wastewater Infrastructure.

Unplasticised PVC pipes and fittings shall comply with the provisions IS EN 1401 2009/2012. Pipes to be application area code UD, Stiffness Class 8kN/m². Provision for jetting shall be based on the WRC Jetting Code of Practice, June 1997. Pipes to be capable of resisting a maximum jetting pump pressure of 2,600psi (180 Bar) without damage (Sewer diameters 150mm up to 450mm, Service Connections of 100mm diameter)

Bedding and trench detail as per STD-WW-07 and STD-WW-08.

All manhole to be 1.2m internal diameter and precast concrete as per detail on Irish Water drawing STD-WW-10.

The minimum pipe size for Gravity Sewer where more than 20 housing units are connected is 225mm diameter subject to hydraulic design capacity assessment re: Lament.

MH-F2.003 and MH-F2.010 Manhole Type 1 as per detail STD-WW-12

Root Barriers to be implemented in accordance with STD-WW-06A. Reference also should be made to BS5837, BS 8545 and the NJUG guidelines volume 4 for further information

Boundary Box

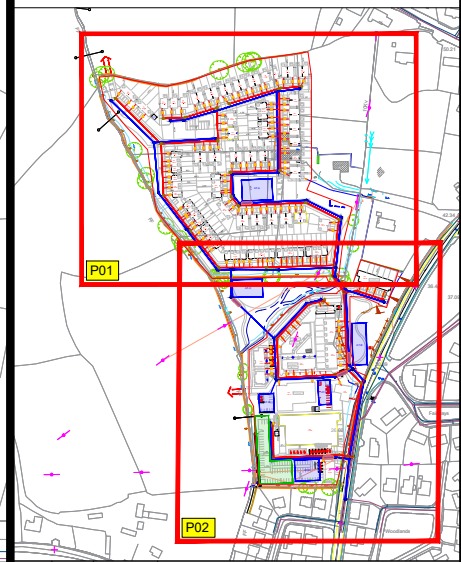
Proposed Foul Sewer

Proposed Storm Sewer

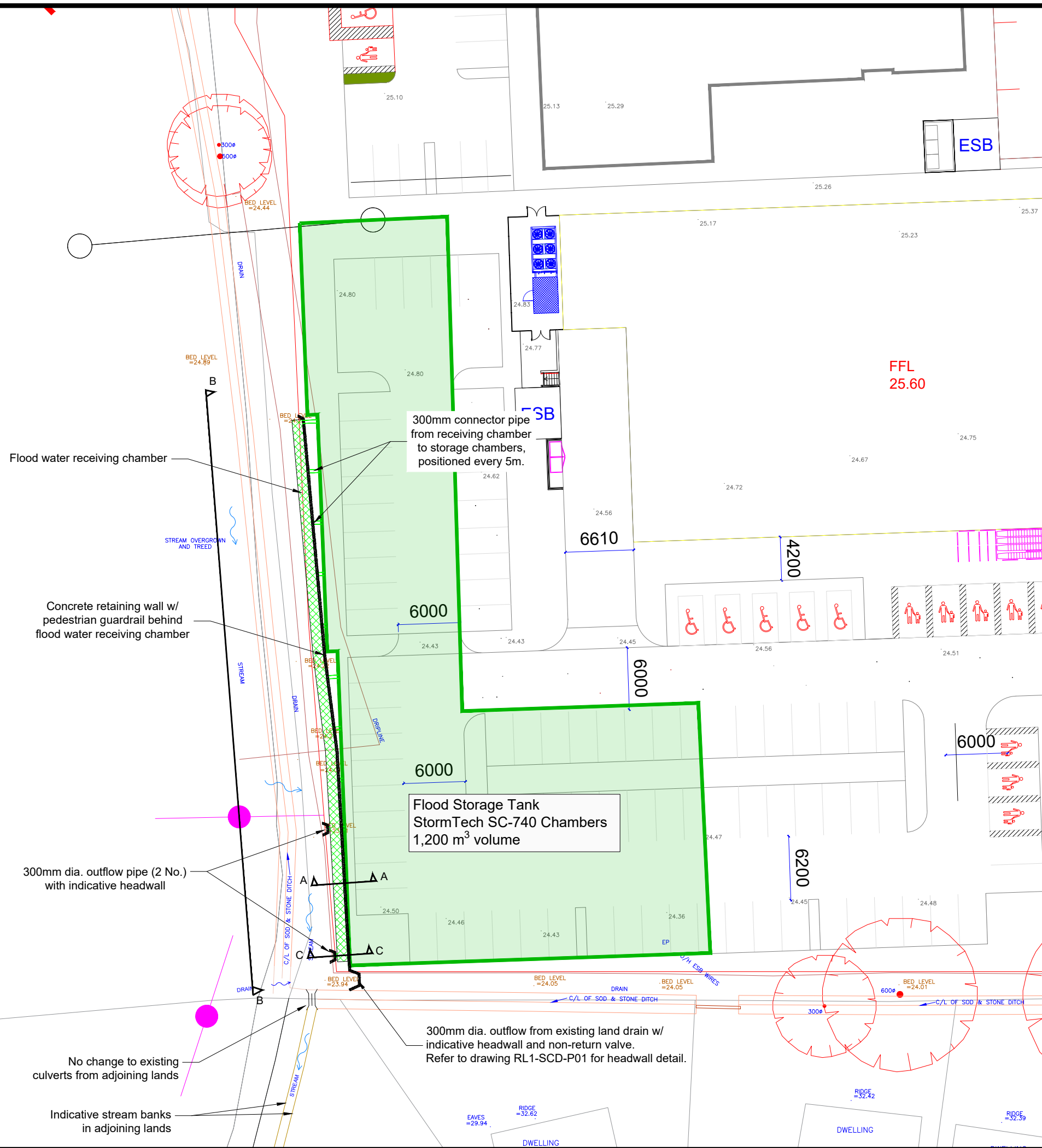
Proposed Attenuation Tank

Proposed Flood Storage Tank

Hydrocarbon Interceptor



Rev	By	Date	Description
A	SM	05/11/20	Adjusted outfall of network S1, S8, F1, F2
B	SM	08/12/20	Updated per revised architect layout
C	SM	09/12/20	Adjusted depth of network S2, S6, F1, F2
D	SM	16/06/21	Adjusted network S7, F7 per road align.
E	SM	22/09/21	Added updated flood storage detail
Drawing Status:			PLANNING NOT CERTIFIED FOR CONSTRUCTION
Project Title:			Cloghroe Housing Development
Drawing Title:			Overall Pipe Network Plan Sheet 2 of 2
Client:			Cloghroe Development Limited
			M.H.L & Associates Ltd. Consulting Engineers Carrig Mór House, 10 High Street, Douglas Road, Cork Tel: 021-4840214 Fax: 021-4840215 E-Mail: info@mhl.ie
Designed: SM		Drawn: SM	Checked: KM
Scale: 1:500 @ A1 1:1000 @ A3		Date: October 2020	
Job No: 19083HD		Drawing No: RL1-OPN-P02	Revision: E



NOTES:
All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

- Legend:**
- Flood Storage Tank
 - Flood Water Receiving Chamber
 - Concrete Retaining Wall
 - Concrete Headwall


Rev	By	Date	Description
04	SM	31/08/21	Updated headwall detail.
05	SM	13/09/21	Added cross-section C-C
06	SM	20/09/21	Added stream details in adjoining lands

Drawing Status: **PLANNING**
NOT CERTIFIED FOR CONSTRUCTION

Project Title:
Cloghroe Development

Drawing Title:
Proposed Flood Storage
Sheet 1 of 4

Client:
Cloghroe Development Limited



M.H.L & Associates Ltd.
Consulting Engineers

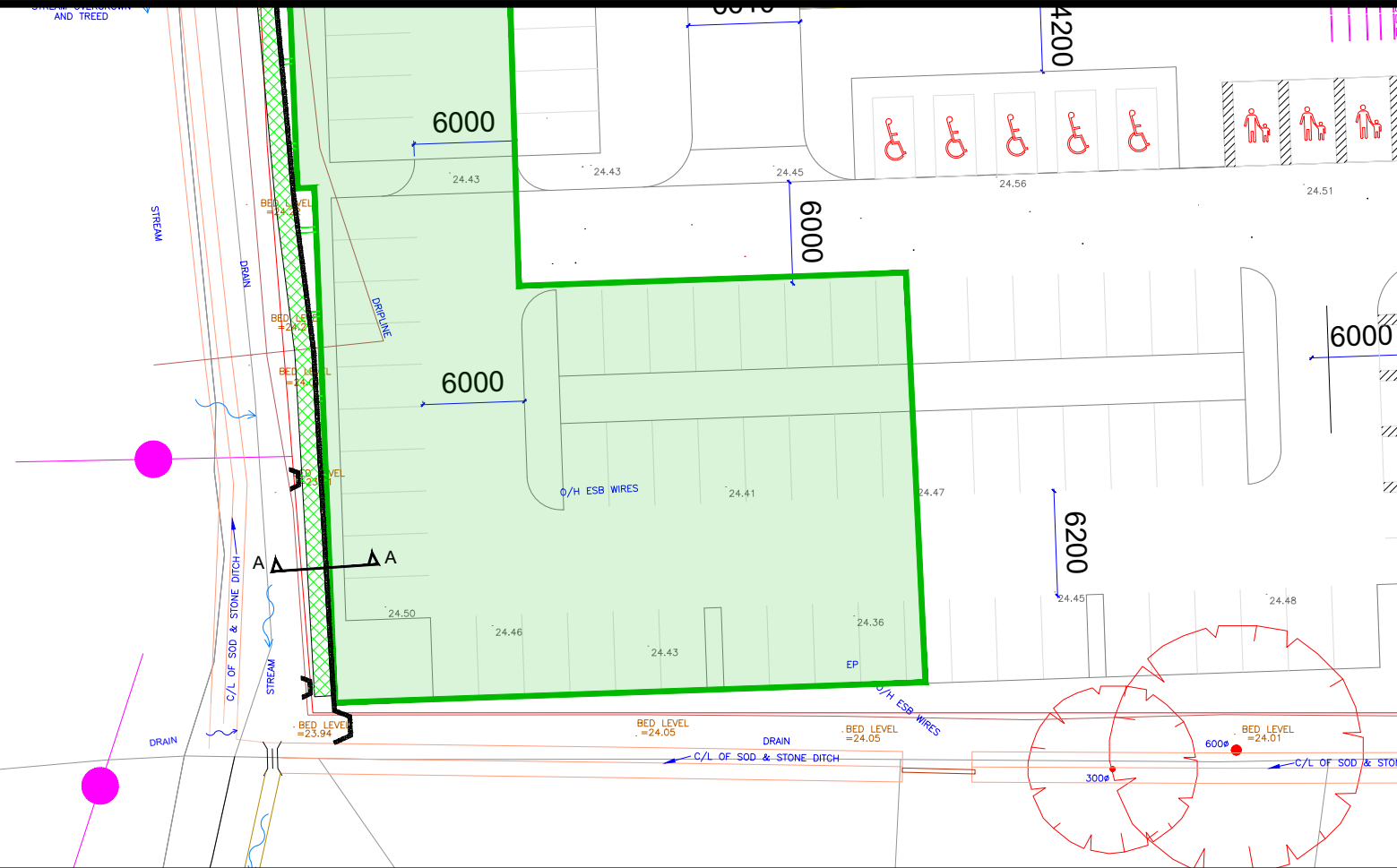
Carrig Mór House,
10 High Street,
Douglas Road,
Cork

Tel: 021-4840214
Fax: 021-4840215
E-Mail: info@mhl.ie

Designed: SM	Drawn: SFM	Checked: KM
Scale: 1:200 @ A1 1:400 @ A3	Date: April 2021	
Job No: 19083HD	Drawing No: RL1-PFS-P01	Revision: 06



1:200 @ A1

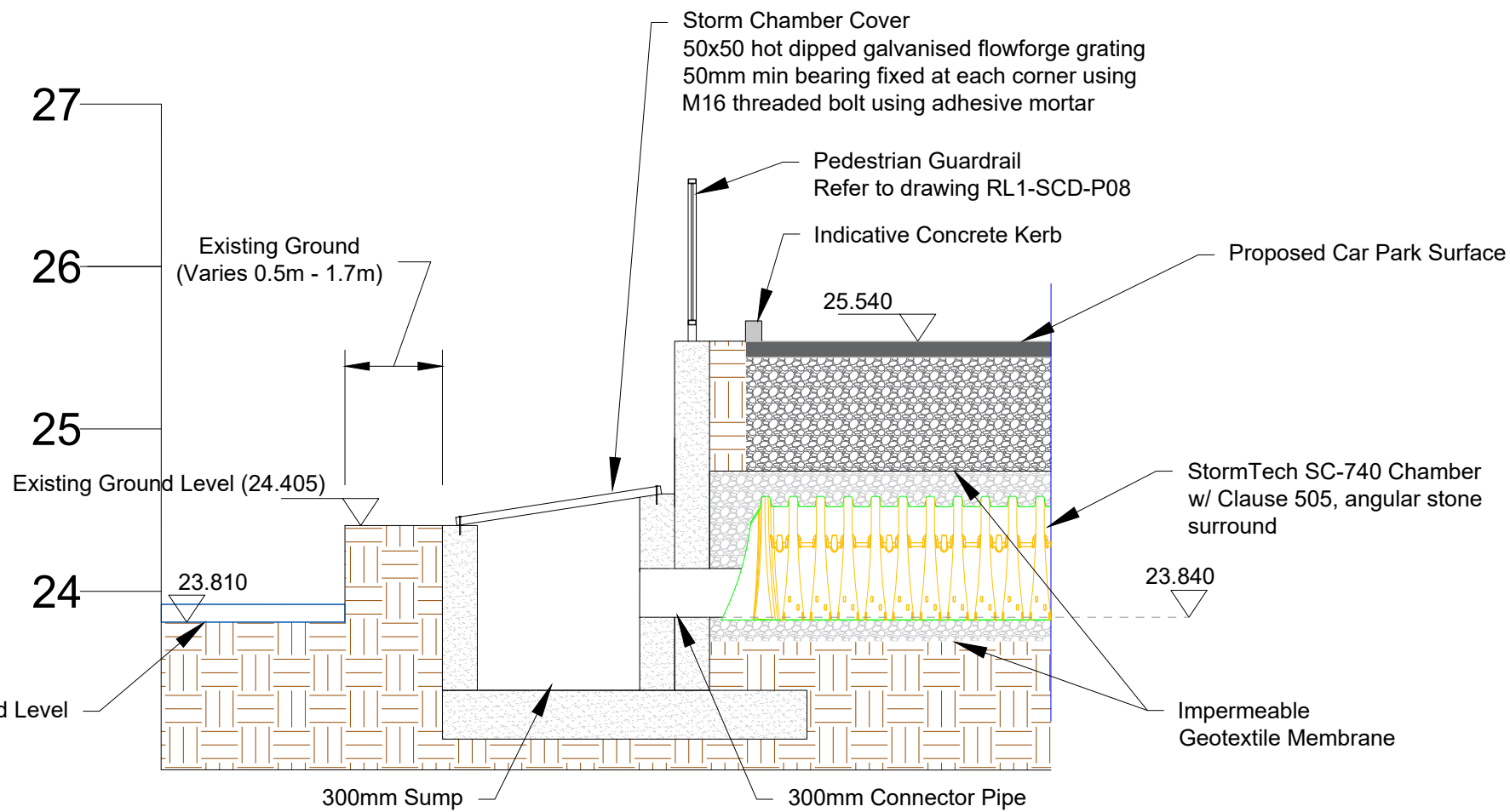


NOTES:

All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

Legend:

- Flood Storage Tank
- Flood Water Receiving Chamber
- Concrete Retaining Wall
- Concrete Headwall



Section A-A

1:20 @ A1

Rev	By	Date	Description
05	SM	31/08/21	Added headwall detail
06	SM	13/09/21	Revised per updated location
07	SM	20/09/21	Added stream details in adjoining lands

Drawing Status: **PLANNING**
NOT CERTIFIED FOR CONSTRUCTION

Project Title: Cloghroe Development

Drawing Title: Proposed Flood Storage
Sheet 2 of 4

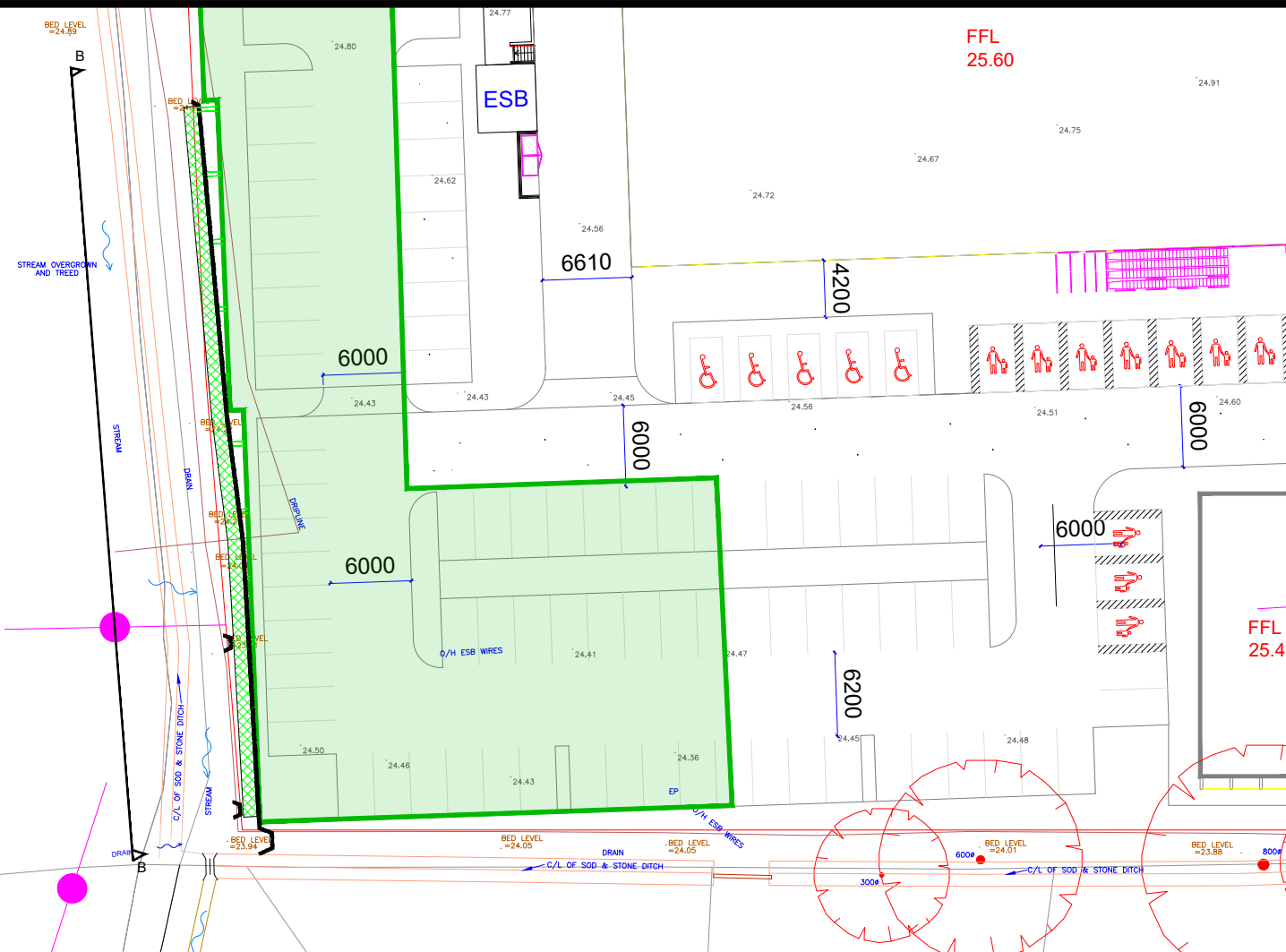
Client: Cloghroe Development Limited



Designed: SM	Drawn: SFM	Checked: KM
Scale: As Shown @ A1	Date: April 2021	
Job No: 19083HD	Drawing No: RL1-PFS-P02	Revision: 07



1:200 @ A1

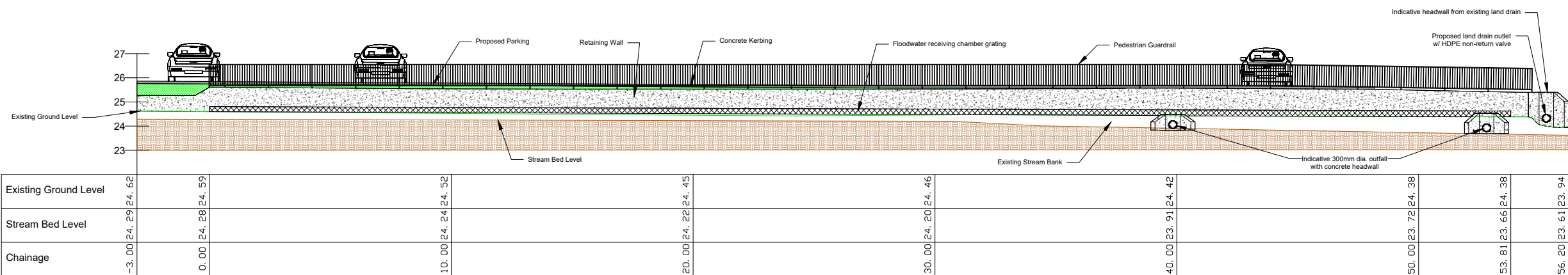


NOTES:

All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

Legend:

- Flood Storage Tank
- Flood Water Receiving Chamber
- Concrete Retaining Wall
- Concrete Headwall
- Ground Level
- Stream Bed Level



Long Section B-B

1:100 @ A1

Rev	By	Date	Description
05	SM	31/08/21	Updated headwall detail
06	SM	13/09/21	Updated lead drain headwall
07	SM	20/09/21	Added stream details to adjoining lands

Drawing Status: **PLANNING**
NOT CERTIFIED FOR CONSTRUCTION

Project Title: Cloghroe Development

Drawing Title: Proposed Flood Storage
Sheet 3 of 4

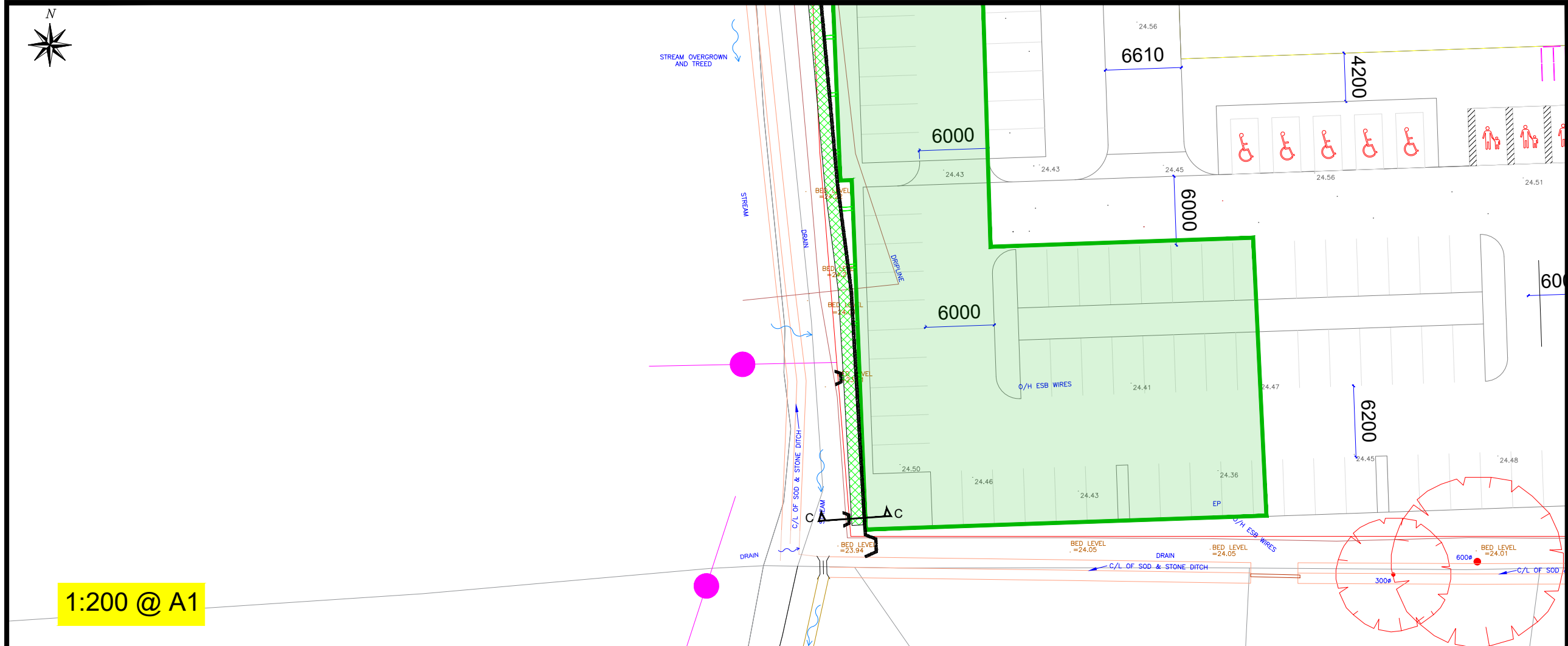
Client: Cloghroe Development Limited

M.H.L. & Associates Ltd.
Consulting Engineers
Carrig Mór House,
10 High Street,
Douglas Road,
Cork
Tel: 021-4840214
Fax: 021-4840215
E-Mail: info@mhl.ie

Designed: SM Drawn: SFM Checked: KM

Scale: As Shown @ A1 Date: April 2021





Job No: 19083HD Drawing No: RL1-PFS-P03 Revision: 07



1:20 @ A1



All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

	Flood Storage Tank
	Flood Water Receiving Chamber
	Concrete Retaining Wall
	Concrete Headwall

Rev	By	Date	Description
01	SM	20/09/21	Added stream details in adjoining lands

Drawing Status: **PLANNING**
NOT CERTIFIED FOR CONSTRUCTION

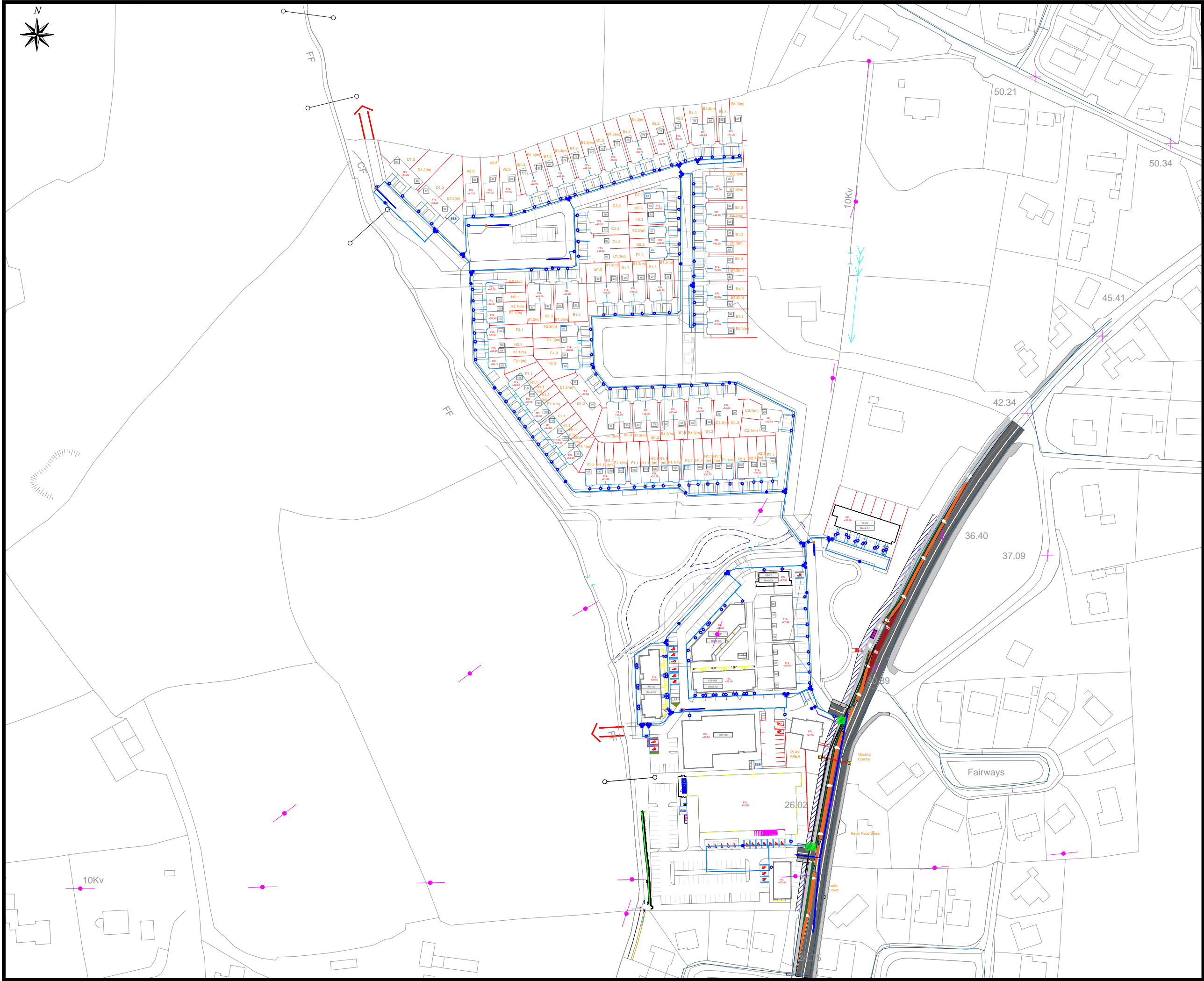
Project Title:	Cloghroe Development
-----------------------	----------------------

Drawing Title: Proposed Flood Storage
Sheet 4 of 4

Client: Cloghroe Development Limited



Designed: SM	Drawn: SFM	Checked: KM
Scale: As Shown @ A1	Date: September 2021	
Job No: 19083HD	Drawing No: RL1-PFS-P04	Revision: 01



NOTES:

All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

- Proposed Watermain (150mm Internal Ø (PE-80).
- Proposed 25mm outer Ø(PE-80) Water Connection to Private Property (Refer to STD-W-01 & STD-W-03 Irish Water: Water Infrastructure Standard Details)
- Proposed Bulk Meter (Refer to STD-W-26A Irish Water: Water Infrastructure Standard Details)
- Proposed Bulk Meter (Refer to STD-W-26A Irish Water: Water Infrastructure Standard Details)
- Proposed Sluice Valve (Refer to STD-W-04 to STD-W-10 & STD-W-14 to STD-W-15 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Proposed Scour Valve (Refer to STD-W-30 & STD-W-32 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Proposed Fire Hydrant (Refer to STD-W-18 to STD-W-19 Irish Water: Water Infrastructure Standard Details). For marker posts refer to STD-W-27 Irish Water: Water Infrastructure Standard Details
- Connection Point (Refer STD-W-05 Irish Water: Water Infrastructure Standard Details)
- Existing watermain
- Site Boundary
- Storm Sewer

Rev	By	Date	Description
01	SM	16 Jun	Planning Issue
02	SM	24 Sep	Updated background layout

Drawing Status:

PLANNING
NOT CERTIFIED FOR CONSTRUCTION

Project Title:

Cloghroe Development

Drawing Title:

Proposed Watermain
Sheet 1 of 7

Client:

Cloghroe Development Limited

M.H.L. & Associates Ltd.
Consulting Engineers

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E-Mail: info@mhl.ie

Designed: SM	Drawn: SFM	Checked: KM
Scale: 1:1000 @ A1	Date: Oct 2020	
Job No: 19083HD	Drawing No: PHDC-PWM-P01	Revision: 02

DATE:16 June 2021

DESIGNER:Fiachra O' Sullivan

PROJECT No:19083HD

PROJECT NAME:Residential Development, Cloghroe, Cork

LIGHTING

REALITY

Lighting Classification

Grid 1: Main Estate Roads - P3

Grid 2: R617 - C3

Grid 3: Retail & Creche - C4

Grid 4: Minor Estate Roads, Apartments & Amenity Areas - P4

Outdoor Lighting Report

DATE:16 June 2021

DESIGNER:Fiachra O' Sullivan

PROJECT No:19083HD

PROJECT NAME:Residential Development, Cloghroe, Cork

Layout Report

General Data

Dimensions in Metres Angles in Degrees

Calculation Grids

ID	Grid Name	X	Y	X' Length	Y' Length	X' Spacing	Y' Spacing
1	Grid 1	557179.41	574495.48	288.47	381.86	1.49	1.53
2	Grid 2	557417.40	574383.02	79.18	357.53	1.58	1.55
3	Grid 3	557351.42	574417.98	93.48	73.29	1.48	1.50
4	Grid 4	557075.17	574503.06	425.40	463.54	1.70	1.85

Luminaires

Luminaire A Data

Supplier	
Type	BGP623 DW50
Lamp(s)	LED-HB 5S/740
Lamp Flux (klm)	13.50
File Name	Luma1_BGP623_DW50_13500_80LED_306mA_5S_CLO_L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	595.5, 51.0, 0.0
No. in Project	15

Luminaire B Data

Supplier	
Type	BGP623 DX10
Lamp(s)	LED-HB 5S/740
Lamp Flux (klm)	12.00
File Name	Luma1_BGP623_DX10_12000_80LED_271mA_5S_CLO_L90_NW.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	522.9, 97.5, 0.0
No. in Project	6

Luminaire C Data

Supplier	
Type	BGP702 DM50
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	3.80
File Name	Luma Gen2 Micro_BGP702_DM50_3800_20LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	921.3, 65.9, 0.0
No. in Project	53

Luminaire D Data

Supplier	
Type	BGP701 DRXN0
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.00
File Name	Luma Gen2 Nano_BGP701_DRXN0_2000_10LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	1419.1, 20.0, 0.0
No. in Project	24

Luminaire E Data

Supplier	
Type	BGP701 DX50
Lamp(s)	LED-HB 5.2S 730
Lamp Flux (klm)	2.00
File Name	Luma Gen2 Nano_BGP701_DX50_2000_10LED_5.2S_CLO_L90_730.ies
Maintenance Factor	0.85
Imax70,80,90(cd/klm)	563.2, 53.2, 0.0
No. in Project	1

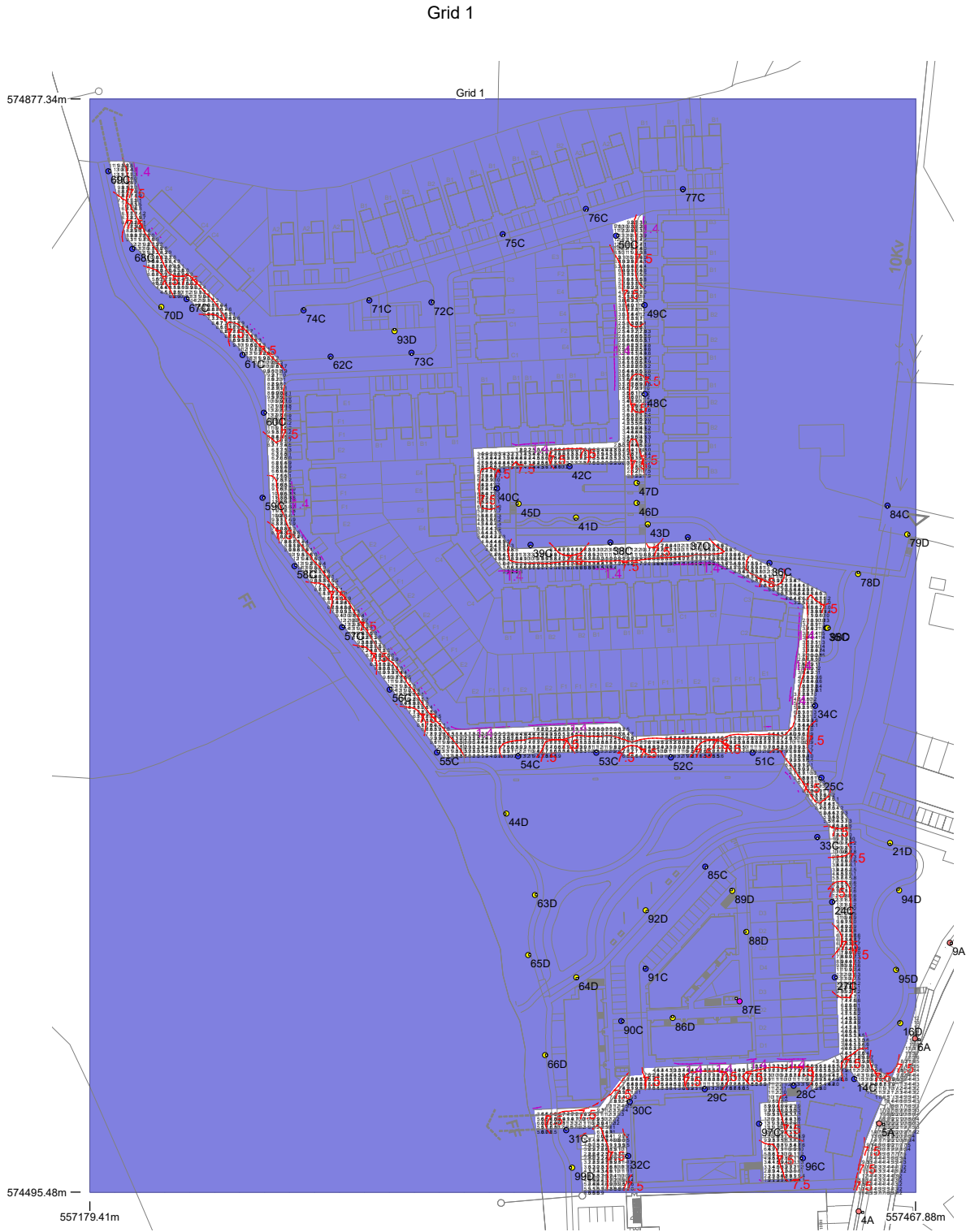
<div><div>DATE: 16 June 2021 PROJECT No: 19083HD</div><div>DESIGNER: Fiachra O' Sullivan PROJECT NAME: Residential Development, Cloghroe, Cork</div><div>LIGHTING REALITY</div></div>											
Layout											
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
1	A	557432.07	574393.13	8.00	355.00	5.00	0.00	1.50			
2	A	557435.79	574425.96	8.00	355.00	3.00	0.00	1.50			
3	A	557442.11	574457.59	8.00	348.00	0.00	0.00	1.50			
4	A	557447.92	574488.81	8.00	346.00	0.00	0.00	1.50			
5	A	557455.12	574519.48	8.00	347.00	0.00	0.00	1.50			
6	A	557467.62	574549.17	8.00	344.00	7.00	0.00	1.50			
7	A	557493.67	574574.37	8.00	182.00	3.00	0.00	0.50			
8	A	557495.53	574608.13	8.00	340.00	5.00	0.00	1.50			
9	A	557479.79	574582.63	8.00	331.00	5.00	0.00	0.50			
10	A	557509.72	574635.08	8.00	328.00	3.00	0.00	1.50			
11	A	557526.93	574661.89	8.00	328.00	3.00	0.00	1.50			
12	A	557545.28	574687.42	8.00	328.00	3.00	0.00	1.50			
13	A	557565.47	574711.57	8.00	326.00	3.00	0.00	1.50			
14	C	557446.36	574535.06	6.00	21.00	0.00	0.00	0.50			
15	B	557425.95	574446.05	8.00	93.00	0.00	0.00	1.50			
16	D	557462.42	574554.50	6.00	135.00	0.00	0.00	0.50			
17	B	557398.34	574462.97	8.00	273.00	0.00	0.00	1.50			
18	B	557351.02	574447.41	8.00	4.00	0.00	0.00	1.50			
19	B	557410.89	574422.41	8.00	95.00	0.00	0.00	1.50			
20	B	557360.28	574420.73	8.00	95.00	0.00	0.00	1.50			
21	D	557458.92	574617.51	6.00	255.00	0.00	0.00	0.50			
22	B	557385.35	574421.37	8.00	90.00	0.00	0.00	1.50			
23	A	557351.31	574478.02	8.00	0.00	0.00	0.00	0.50			
24	C	557438.63	574596.85	6.00	2.00	0.00	0.00	0.50			
25	C	557434.90	574640.23	6.00	211.00	0.00	0.00	0.50			
26	A	557371.83	574465.41	8.00	3.00	0.00	0.00	0.50			
27	C	557439.51	574570.55	6.00	2.00	0.00	0.00	0.50			
28	C	557425.19	574532.70	6.00	97.00	0.00	0.00	0.50			
29	C	557394.12	574531.45	6.00	92.00	0.00	0.00	0.50			
30	C	557368.00	574527.01	6.00	137.00	5.00	0.00	0.50			
31	C	557345.79	574517.11	6.00	97.00	0.00	0.00	0.50			
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33	C	557433.51	574619.57	6.00	275.00	0.00	0.00	0.50			
34	C	557432.77	574665.43	6.00	172.00	0.00	0.00	0.50			
35	C	557436.65	574692.60	6.00	180.00	0.00	0.00	0.50			
36	C	557416.72	574715.22	6.00	243.00	0.00	0.00	0.50			
815826228											

<div><div>DATE: 16 June 2021 PROJECT No: 19083HD</div><div>DESIGNER: Fiachra O' Sullivan PROJECT NAME: Residential Development, Cloghroe, Cork</div><div>LIGHTING REALITY</div></div>											
Layout Continued											
ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
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39	C	557333.27	574721.57	6.00	270.00	0.00	0.00	0.50			
40	C	557321.62	574741.30	6.00	180.00	0.00	0.00	0.50			
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44	D	557324.91	574627.76	6.00	193.00	0.00	0.00	0.50			
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46	D	557370.37	574736.25	6.00	356.00	0.00	0.00	0.50			
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48	C	557373.22	574774.24	6.00	182.00	5.00	0.00	0.50			
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53	C	557356.30	574648.94	6.00	94.00	5.00	0.00	0.50			
54	C	557328.94	574647.76	6.00	91.00	5.00	0.00	0.50			
55	C	557300.66	574649.06	6.00	37.00	0.00	0.00	0.50			
56	C	557284.10	574671.07	6.00	36.00	0.00	0.00	0.50			
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58	C	557250.91	574714.16	6.00	37.00	0.00	0.00	0.50			
59	C	557239.70	574738.02	6.00	4.00	5.00	0.00	0.50			
60	C	557240.14	574767.70	6.00	0.00	0.00	0.00	0.50			
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63	D	557334.84	574599.33	6.00	4.00	0.00	0.00	0.50			
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65	D	557332.53	574578.32	6.00	16.00	0.00	0.00	0.50			
66	D	557338.40	574543.40	6.00	3.00	0.00	0.00	0.50			
67	C	557213.16	574807.41	6.00	40.00	0.00	0.00	0.50			
68	C	557194.23	574824.98	6.00	29.00	0.00	0.00	0.50			
69	C	557185.82	574852.09	6.00	15.00	0.00	0.00	0.50			
70	D	557204.40	574804.69	6.00	225.00	0.00	0.00	0.50			
71	C	557277.01	574806.97	6.00	110.00	0.00	0.00	0.50			
72	C	557298.70	574806.34	6.00	7.00	0.00	0.00	0.50			
815826228											

Layout Continued

ID	Type	X	Y	Height	Angle	Tilt	Cant	Out-reach	Target X	Target Y	Target Z
73	C	557291.77	574788.69	6.00	274.00	0.00	0.00	0.50			
74	C	557254.09	574803.49	6.00	89.00	5.00	0.00	0.50			
75	C	557323.59	574830.14	6.00	289.00	5.00	0.00	0.50			
76	C	557352.62	574838.94	6.00	294.00	0.00	0.00	0.50			
77	C	557386.49	574845.86	6.00	270.00	0.00	0.00	0.50			
78	D	557447.70	574711.43	6.00	81.00	0.00	0.00	0.50			
79	D	557464.91	574725.21	6.00	352.00	0.00	0.00	0.50			
80	C	557547.18	574711.78	6.00	261.00	5.00	0.00	0.50			
81	C	557530.52	574719.59	6.00	262.00	5.00	0.00	0.50			
82	C	557508.64	574725.22	6.00	258.00	5.00	0.00	0.50			
83	C	557482.98	574731.32	6.00	255.00	5.00	0.00	0.50			
84	C	557458.02	574735.36	6.00	261.00	5.00	0.00	0.50			
85	C	557394.35	574609.25	6.00	316.00	5.00	0.00	0.50			
86	D	557382.95	574556.32	6.00	92.00	0.00	0.00	0.50			
87	E	557406.32	574562.22	6.00	140.00	0.00	0.00	1.50			
88	D	557408.72	574586.43	6.00	180.00	0.00	0.00	0.50			
89	D	557403.80	574600.76	6.00	136.00	0.00	0.00	0.50			
90	C	557365.03	574555.29	6.00	2.00	0.00	0.00	0.50			
91	C	557373.56	574573.54	6.00	129.00	5.00	0.00	0.50			
92	D	557373.57	574593.93	6.00	321.00	0.00	0.00	0.50			
93	D	557285.83	574796.29	6.00	94.00	0.00	0.00	0.50			
94	D	557462.10	574600.99	6.00	138.00	0.00	0.00	0.50			
95	D	557460.95	574573.13	6.00	29.00	0.00	0.00	0.50			
96	C	557428.44	574507.39	6.00	184.00	0.00	0.00	0.50			
97	C	557413.16	574519.37	6.00	5.00	0.00	0.00	0.50			
98	D	557437.09	574692.55	6.00	346.00	0.00	0.00	0.50			
99	D	557347.84	574504.06	6.00	182.00	0.00	0.00	0.50			

Horizontal Illuminance (lux)

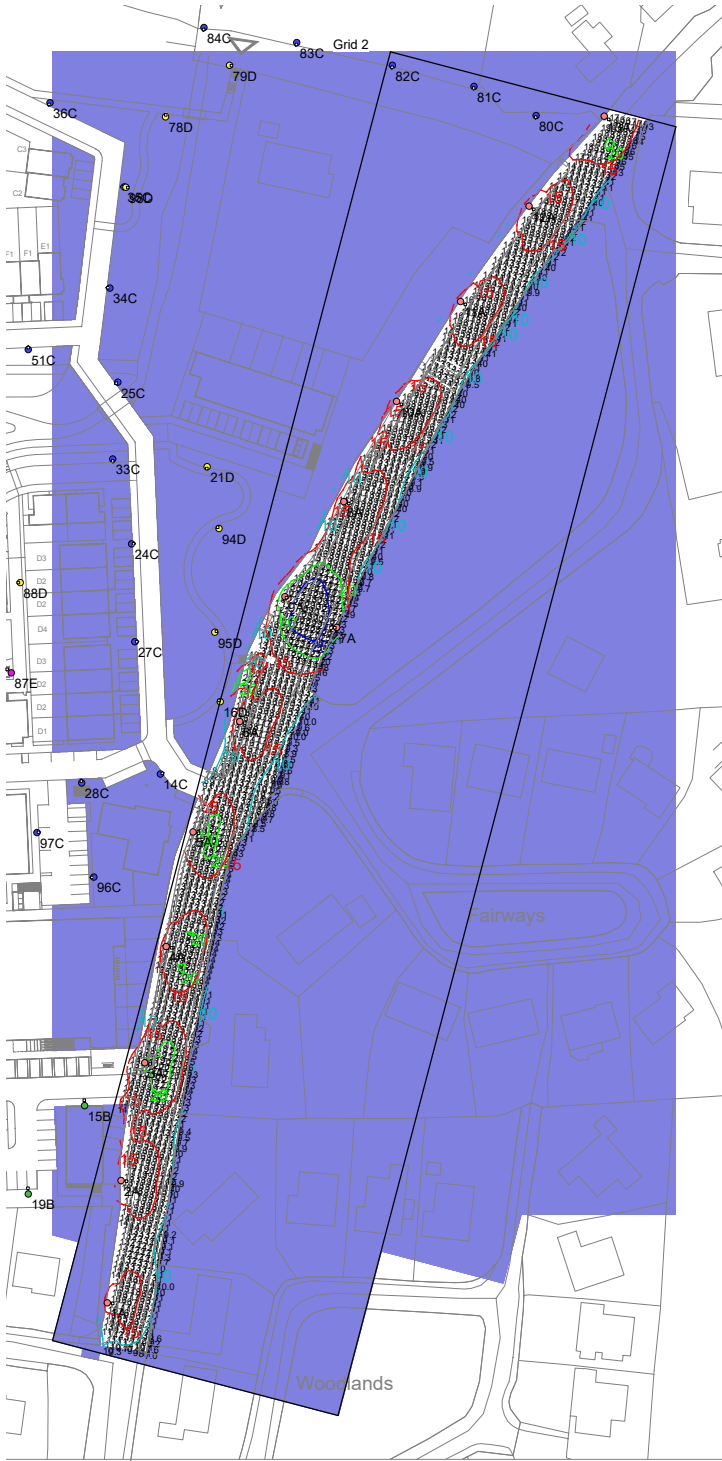


Results

Eav	8.24
Emin	1.65
Emax	23.27
Emin/Emax	0.07
Emin/Eav	0.20

Horizontal Illuminance (lux)

Grid 2

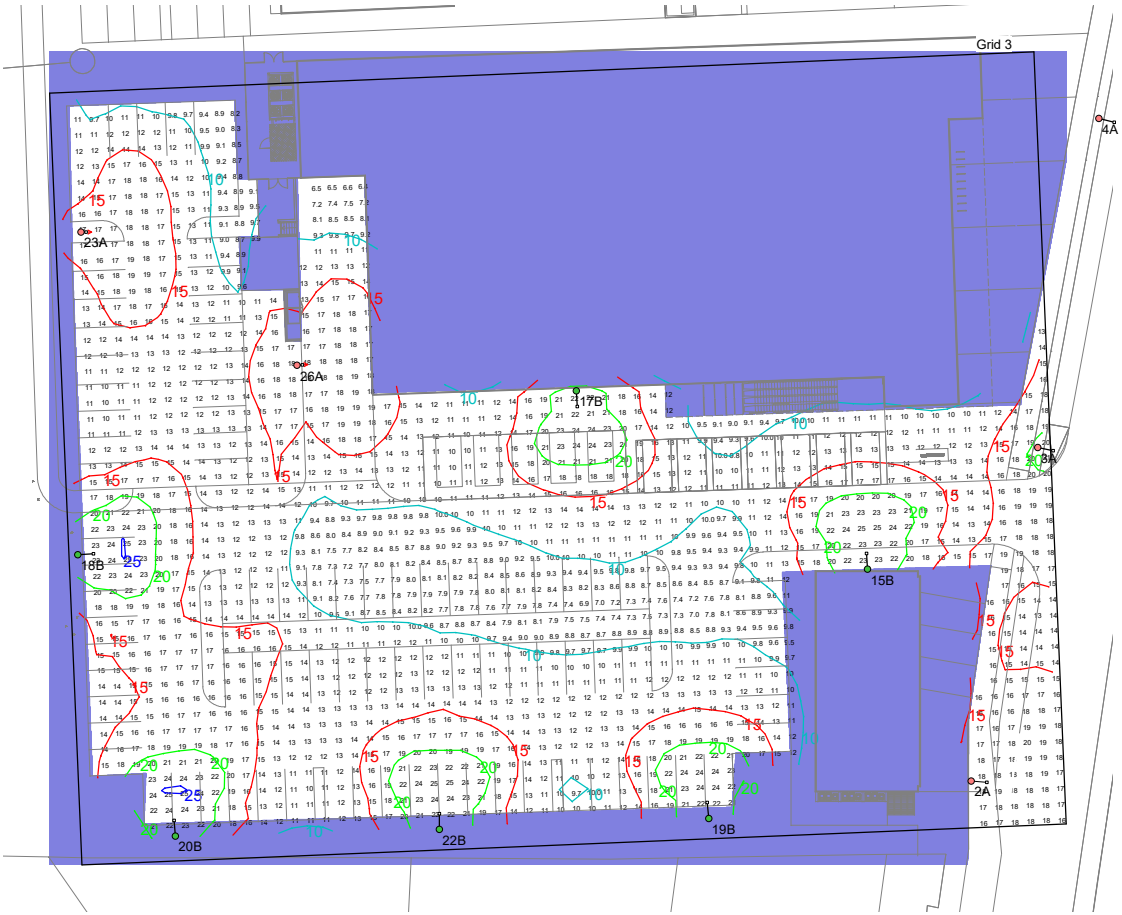


Results

Eav	15.55
Emin	6.70
Emax	30.79
Emin/Emax	0.22
Emin/Eav	0.43

Horizontal Illuminance (lux)

Grid 3

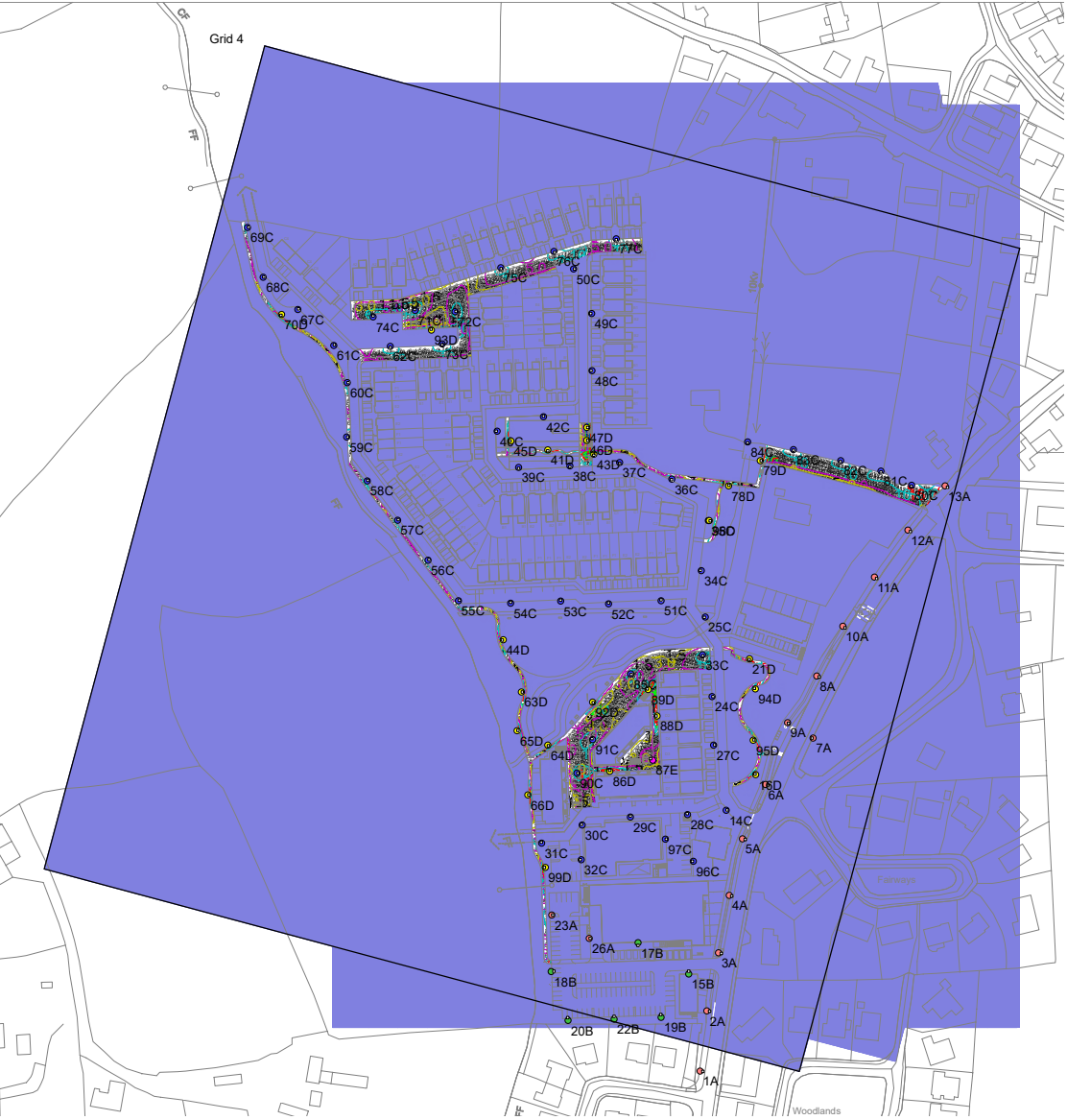


Results

Eav	13.97
Emin	6.39
Emax	25.37
Emin/Emax	0.25
Emin/Eav	0.46

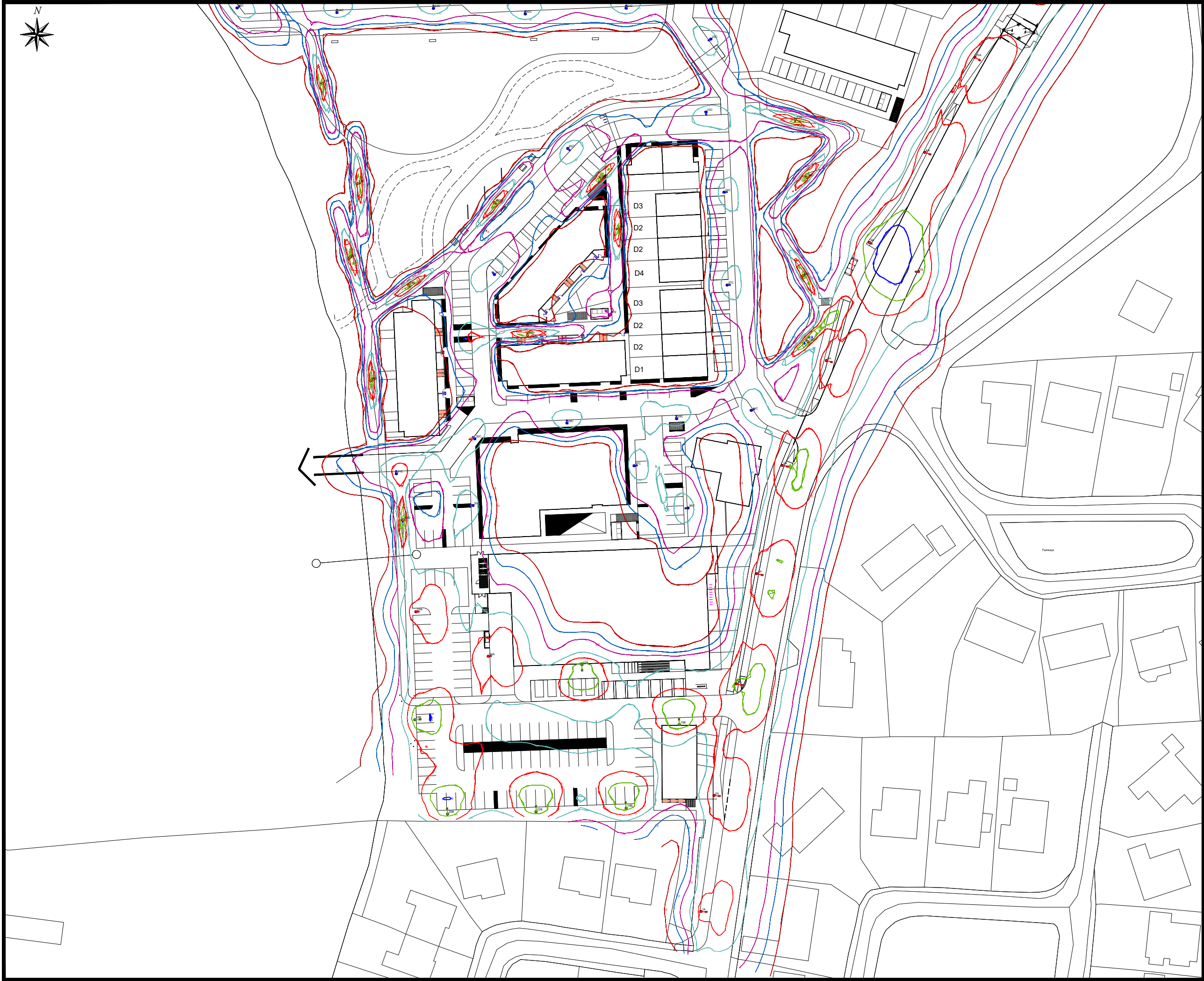
Horizontal Illuminance (lux)

Grid 4



Results

Eav	7.16
Emin	1.40
Emax	36.46
Emin/Emax	0.04
Emin/Eav	0.20



NOTES:

All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

LEGEND:

- Proposed Philips Luma1_BGP623_DW50 13.5klm on 8.0m lighting columns
- Proposed Philips Luma1_BGP623_DX10 12klm on 8.0m lighting columns
- Proposed Philips Luma Gen2_Micro_BGP702_DM50 3.8klm on 6.0m lighting columns
- Proposed Philips Luma Gen2_Nano_BGP701_DRXN0 2.0klm on 6.0m lighting columns
- Proposed Philips Luma Gen2_Nano_BGP701_DX50 2.0klm on 6.0m lighting columns

LIGHTING SPECIFICATION:

Public Lighting Design complies with BS5489 & EN13201.
Lanterns should comply with BS EN 60598-2-3.
Columns shall be manufactured to BS EN 40-3-1:2013.
Columns are to have a double locked framed door and should be multisided galvanised to Cork City Council specification.
Public lighting to be fed from new power supply connections.

NOTES ON LANDSCAPING & MAINTENANCE:

No trees shall be planted in such a manner that the foliage is likely to obstruct the light in the future.
Hinged columns to be installed where accessibility by a maintenance vehicle is not viable.
The minimum clearance from edge of carriageway to face of lighting columns shall be 0.8m as per Table 2 from BS 5489 for a design speed of <50km/hr.

LIGHTING CLASS:

R617 - Class C3: Eav Lux = 15 Emin/ Eav = 0.4
Main Estate Roads - Class P3: Eav Lux = 7.5 Emin = 1.5
Retail & Creche - Class C4: Eav Lux = 10 Emin/ Eav = 0.4
Minor Estate Roads, Apartments & Amenity Areas - Class P4: Eav Lux = 5 Emin = 1.0


Rev	By	Date	Description

Drawing Status: **PLANNING**
NOT CERTIFIED FOR CONSTRUCTION

Project Title: Cloghroe Development

Drawing Title: Public Lighting Layout (1 of 3)

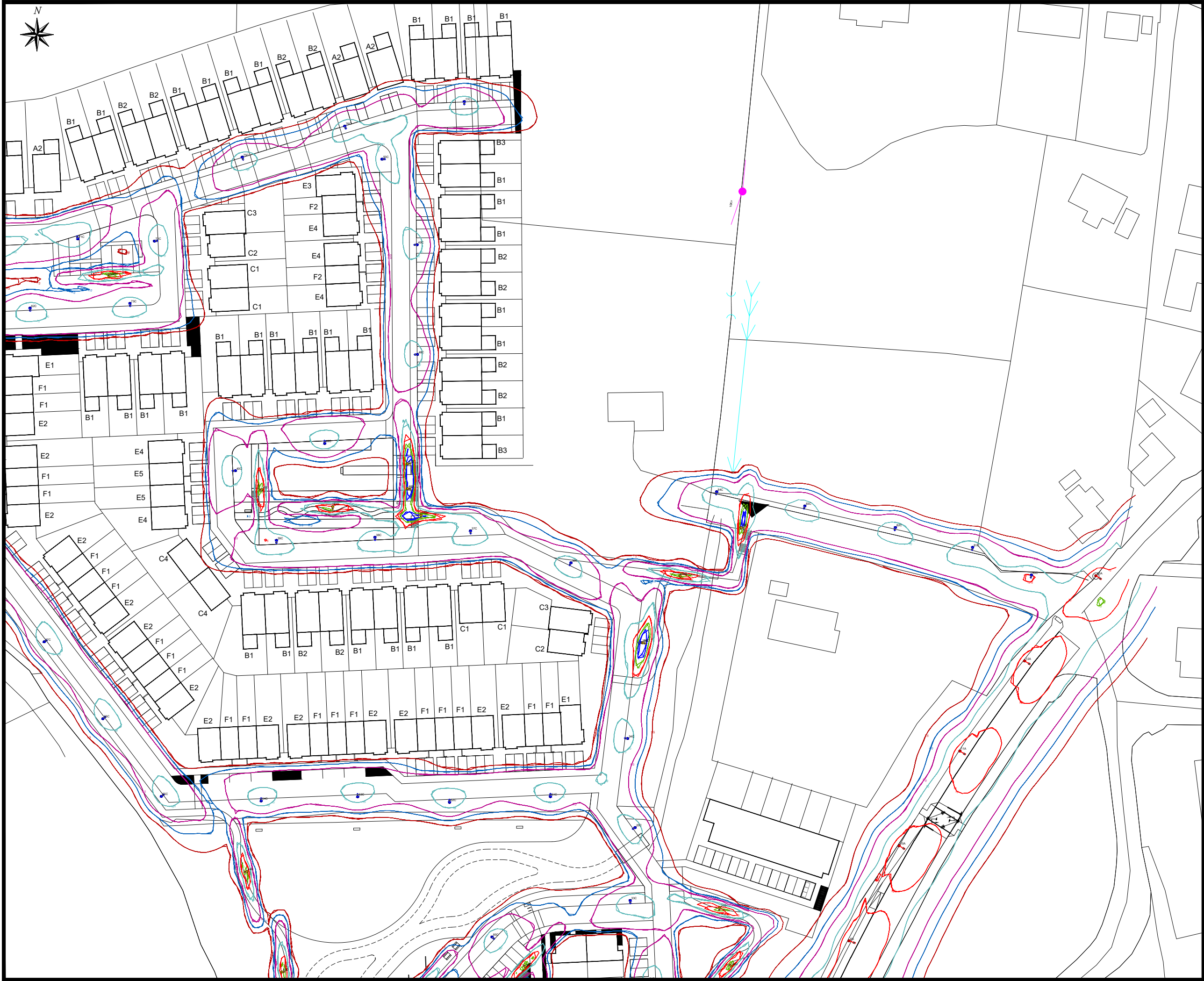
Client: Cloghroe Development Ltd.

**M.H.L. & Associates Ltd.**
Consulting Engineers

Carrig Mór House,
10 High Street,
Douglas Road,
Cork

Tel: 021-4840214
Fax: 021-4840215
E-Mail: info@mhl.ie

Designed: FOS	Drawn: FOS	Checked: KM
Scale: 1/500@A1	Date: June 2021	
Job No: 19083HD	Drawing No: RL1-PPL-P01	Revision: 00



NOTES:

All dimensions in metres.
Do not scale from drawing.
For any discrepancies found please consult with design office.
This drawing should be read in conjunction with all contract drawings, documents and specifications.

LEGEND:

- Proposed Philips Luma1_BGP623_DW50 13.5klm on 8.0m lighting columns
- Proposed Philips Luma1_BGP623_DX10 12klm on 8.0m lighting columns
- Proposed Philips Luma Gen2_Micro_BGP702_DM50 3.8klm on 6.0m lighting columns
- Proposed Philips Luma Gen2 Nano_BGP701_DRXN0 2.0klm on 6.0m lighting columns
- Proposed Philips Luma Gen2 Nano_BGP701_DX50 2.0klm on 6.0m lighting columns

LIGHTING SPECIFICATION:

Public Lighting Design complies with BS5489 & EN13201.
Lanterns should comply with BS EN 60598-2-3.
Columns shall be manufactured to BS EN 40-3-1:2013.
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Public lighting to be fed from new power supply connections.

NOTES ON LANDSCAPING & MAINTENANCE:

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Hinged columns to be installed where accessibility by a maintenance vehicle is not viable.

The minimum clearance from edge of carriageway to face of lighting columns shall be 0.8m as per Table 2 from BS 5489 for a design speed of <50km/hr.

LIGHTING CLASS:

R617 - Class C3: Eav Lux = 15 Emin/ Eav = 0.4
Main Estate Roads - Class P3: Eav Lux = 7.5 Emin = 1.5
Retail & Creche - Class C4: Eav Lux = 10 Emin/ Eav = 0.4
Minor Estate Roads, Apartments & Amenity Areas - Class P4: Eav Lux = 5 Emin = 1.0

Rev	By	Date	Description

Drawing Status:

PLANNING
NOT CERTIFIED FOR CONSTRUCTION

Project Title:


Cloghroe Development

Drawing Title:

Public Lighting Layout (2 of 3)

Client:

Cloghroe Development Ltd.

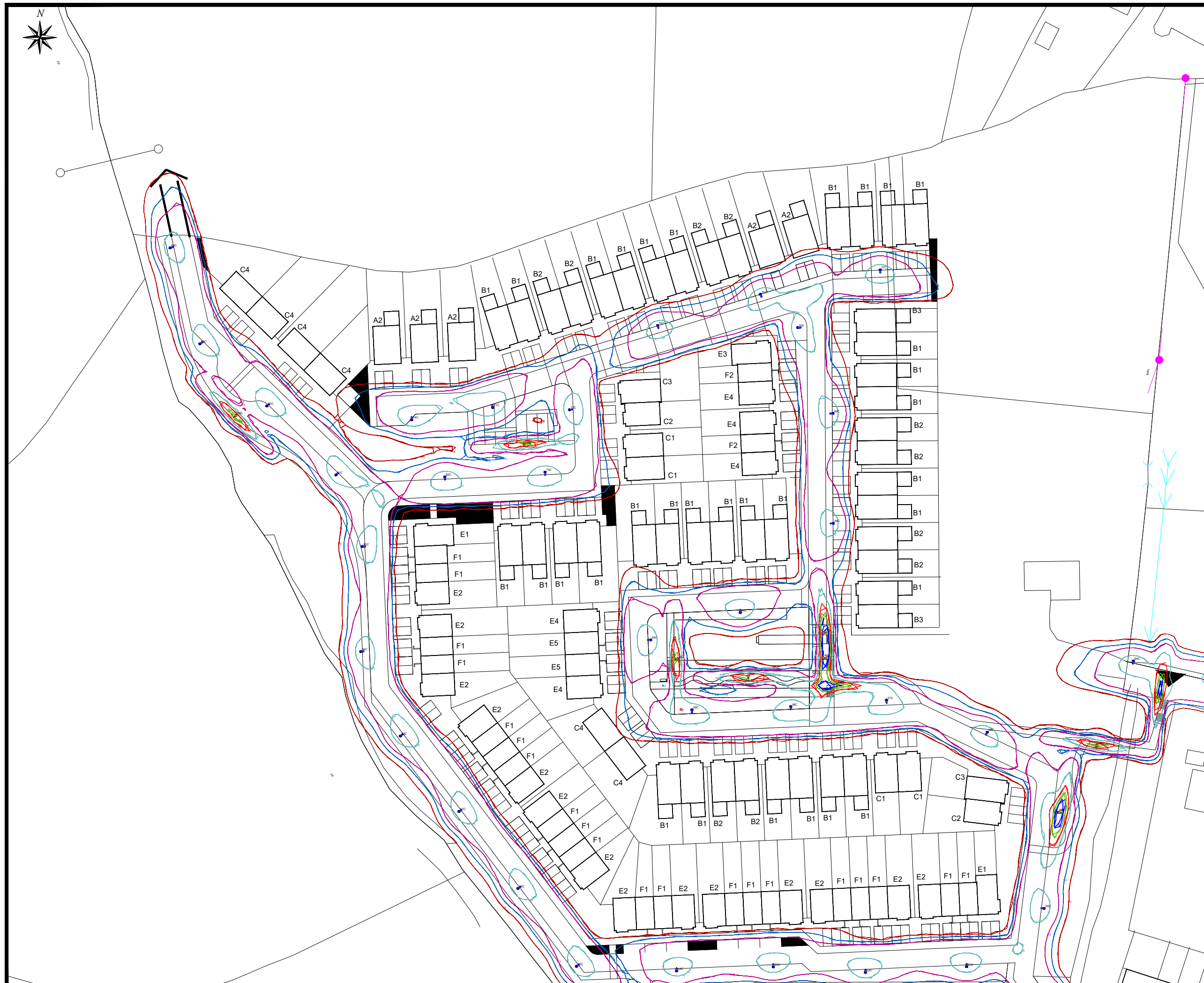


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Designed:	Drawn:	Checked:
FOS	FOS	KM
Scale:	Date:	
1/500@A1	June 2021	
Job No:	Drawing No:	Revision:
19083HD	RL1-PPL-P02	00



NOTES:

LEGEND:

LIGHTING SPECIFICATION:

NOTES ON LANDSCAPING & MAINTENANCE:

Hinged columns to be installed where accessibility by a maintenance vehicle is not viable.

LIGHTING CLASS:

Rev	By	Date	Description

Drawing Status:

Project Title:

Drawing Title:

Client:

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10 High Street,
Douglas Road,
Cork

Tel: 021-4840214
Fax: 021-4840215
E-Mail: info@mhl.ie

Scale:	1/500@A1	Date:	June 2021
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Job No:	Drawing No:	Revision:
19083HD	RL1-PPL-P03	00