

APPENDIX H: Swept Path Analysis and Layout Review



1. Based on 'Midland Survey' topographical survey drawing '26677-R1-1' received on 17.05.17 and Coomes Everitt Architects masterplan received on 24.04.20.
2. Design speed for internal link road is 20mph and shared space roads is 15mph.

Legend

-  Proposed new carriageway to be adopted
-  Proposed new footway to be adopted
-  Proposed verge to be adopted

L	24.04.20	Amended to include latest masterplan	LG	MP
K	23.04.20	Amended to include latest masterplan	LG	MP
J	15.04.20	Revised masterplan	LG	MP
Rev	Date	Details	Drawn by	Checked by



COTSWOLD
TRANSPORT
PLANNING

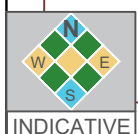
CLIENT:
WMCL

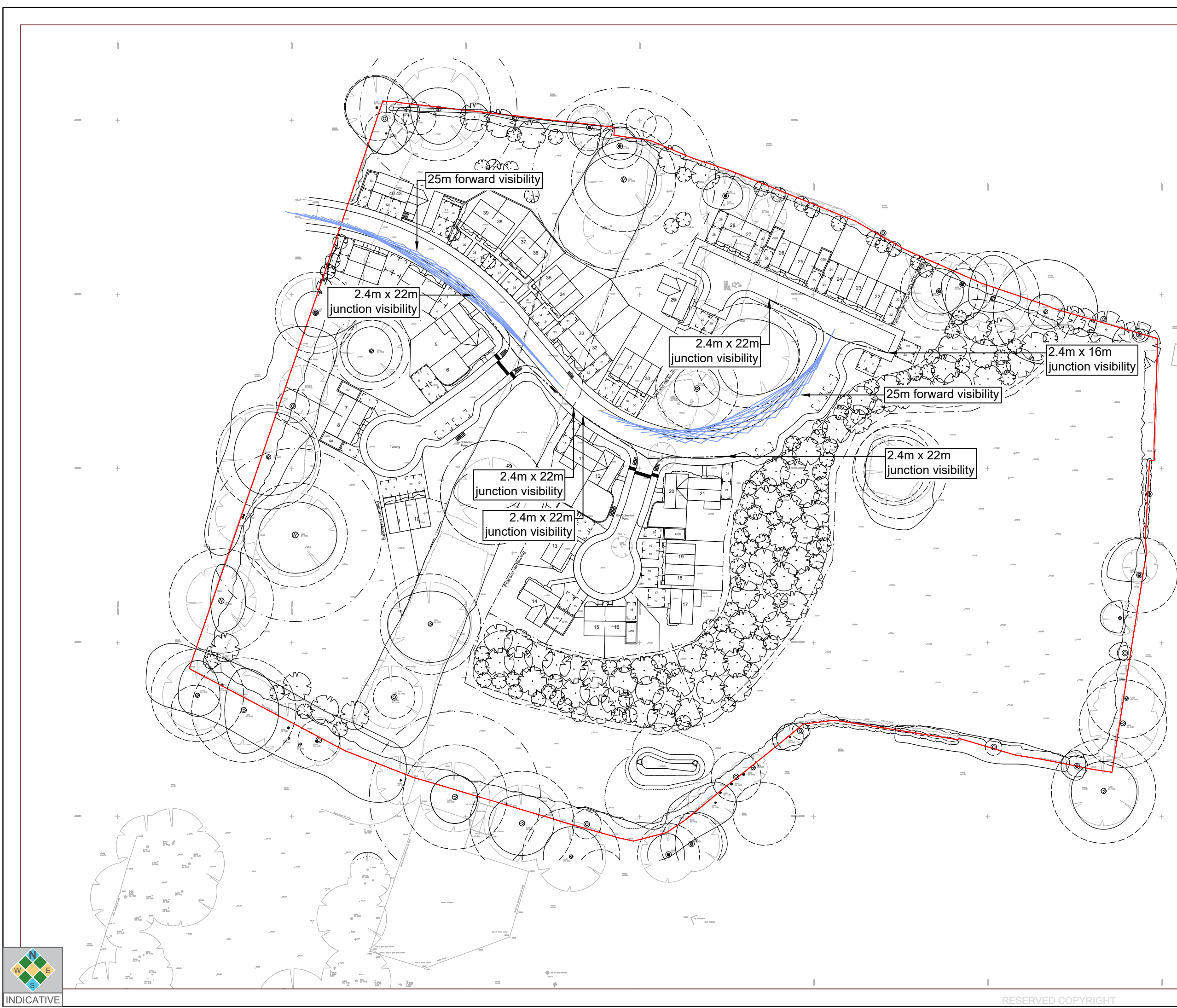
PROJECT:
**Land off Oakhurst Rise,
Charlton Kings**

TITLE:
Indicative Adoption Plan

STATUS:
INFORMATION

SCALE @ A3: 1:1000	DATE: 22.11.17	DRAWN: LG	CHECKED: MP	APPROVED: MP
JOB NO: CTP-16-332	DRAWING NO: LA01	REVISION: L		





1. Based on 'Midland Survey' topographical survey drawing '26677-R1-1' received on 17.05.17 and Coomes Everitt Architects masterplan received on 24.04.20.
2. Design speed for internal link road is 20mph and shared space roads is 15mph.

S	24.04.20	Amended to include latest masterplan	LG	MP
R	23.04.20	Amended to include latest masterplan	LG	MP
Q	15.04.20	Revised masterplan	LG	MP
Rev	Date	Details	Drawn by	Checked by



COTSWOLD
TRANSPORT
PLANNING

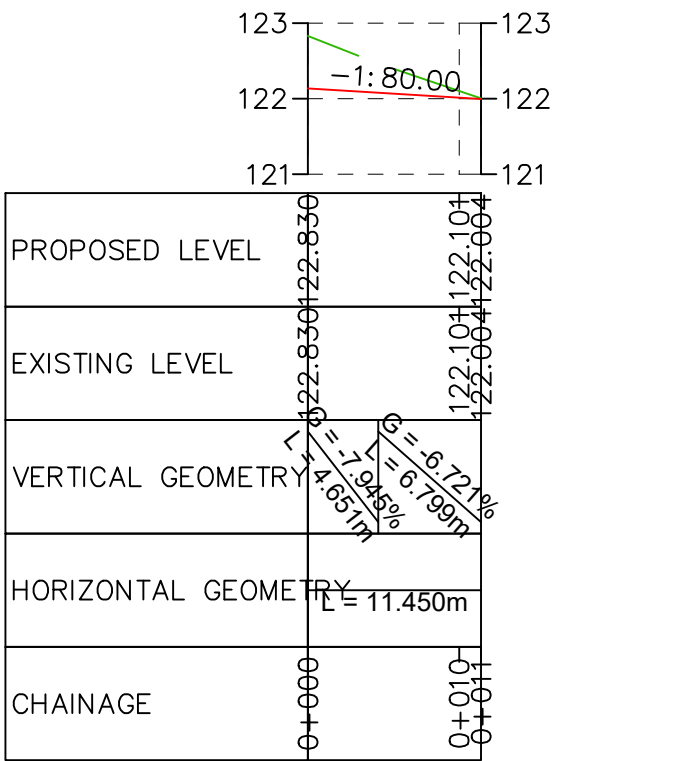
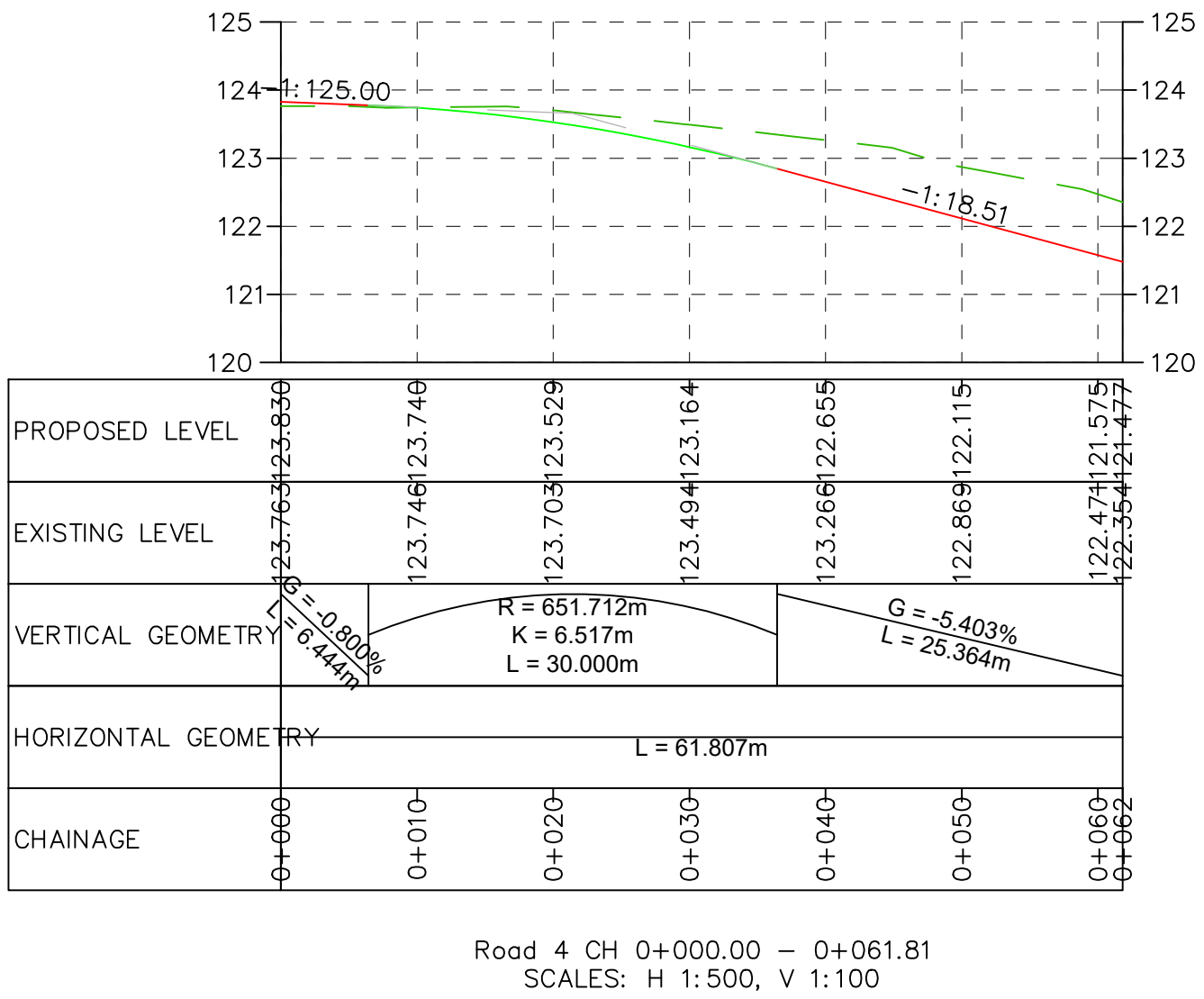
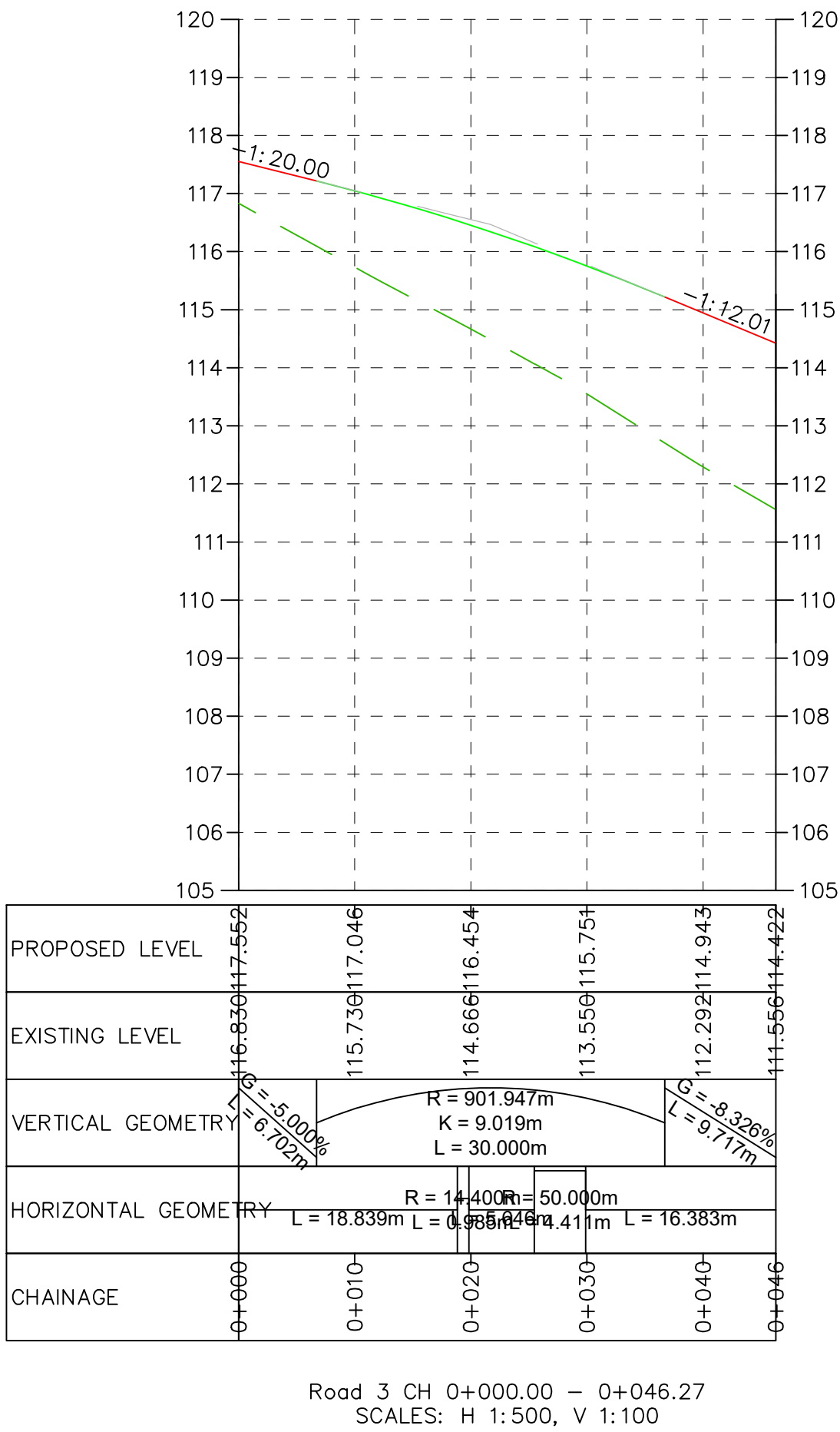
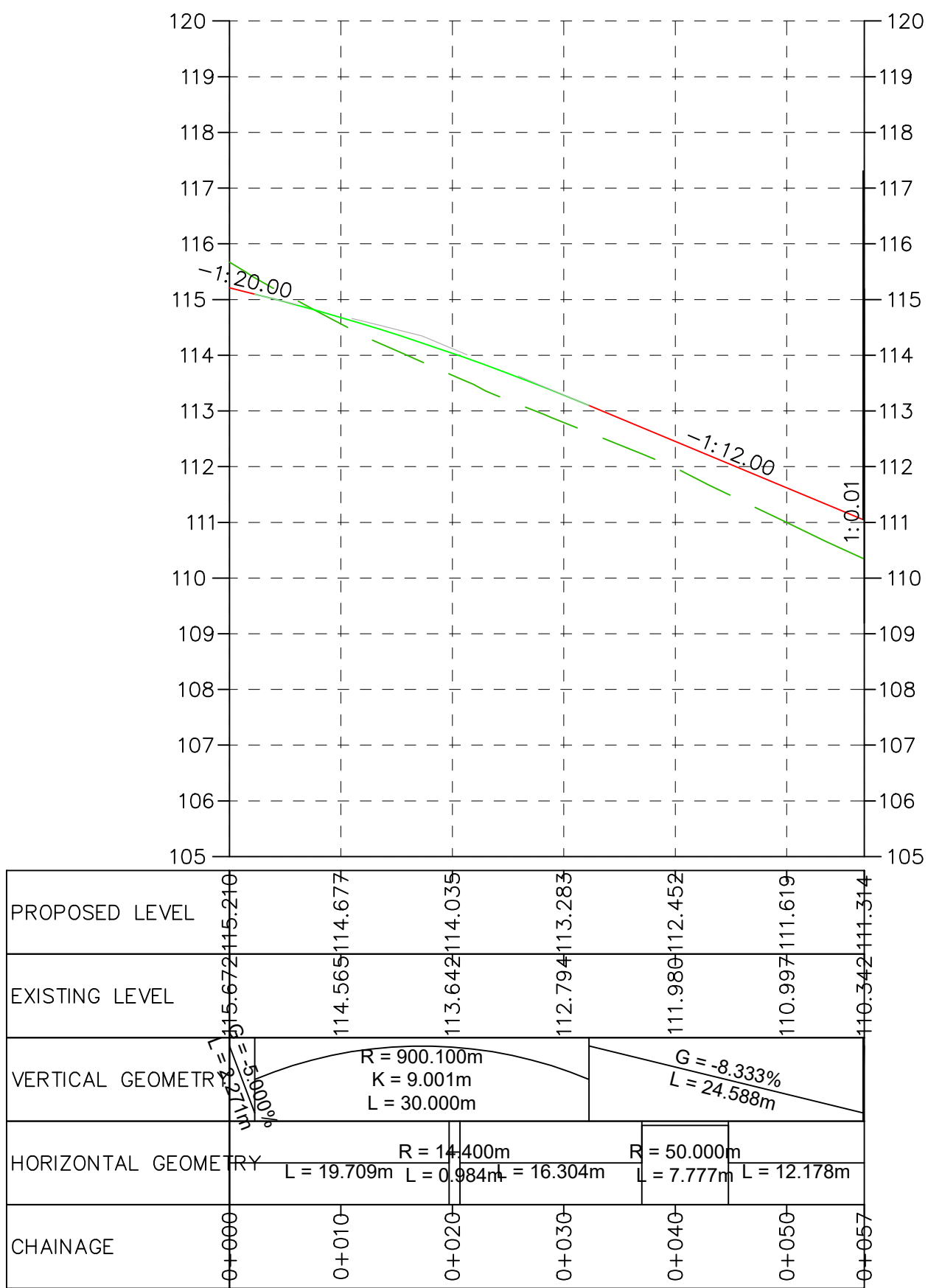
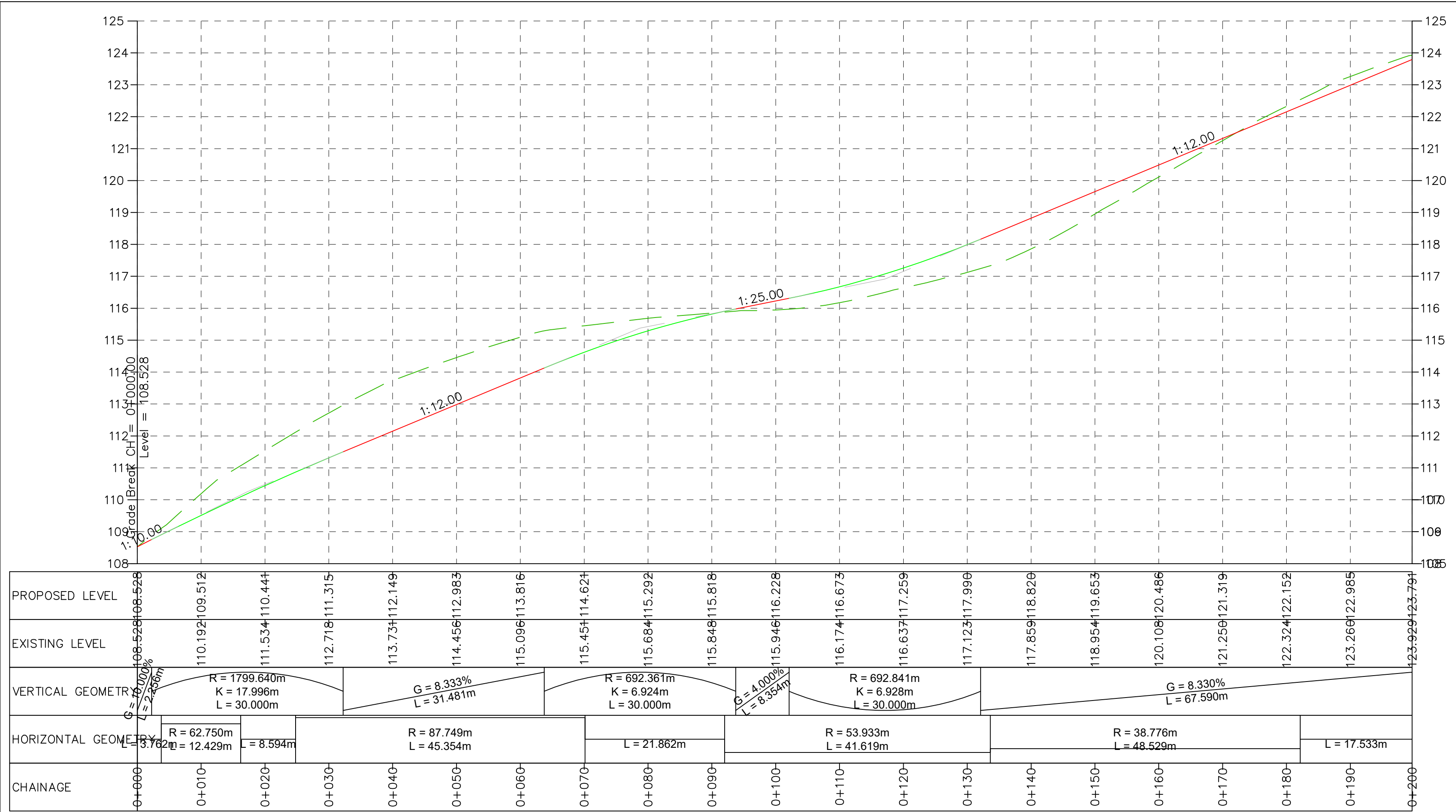
CLIENT:
WMCL

PROJECT:
**Land off Oakhurst Rise,
Charlton Kings**

TITLE:
Proposed Site Road Layout

STATUS:
INFORMATION

SCALE @ A3: 1:1000	DATE: 06.10.16	DRAWN: LG	CHECKED: MP	APPROVED: MP
JOB NO: CTP-16-332	DRAWING NO: SK01	REVISION: S		



- Based on 'Midland Survey' topographical survey drawing '26677 R1' received on 17.05.17 and Everitt Architects masterplan received on 23.04.20
- All levels out with highway to be designed by others.



COTSWOLD
TRANSPORT
PLANNING

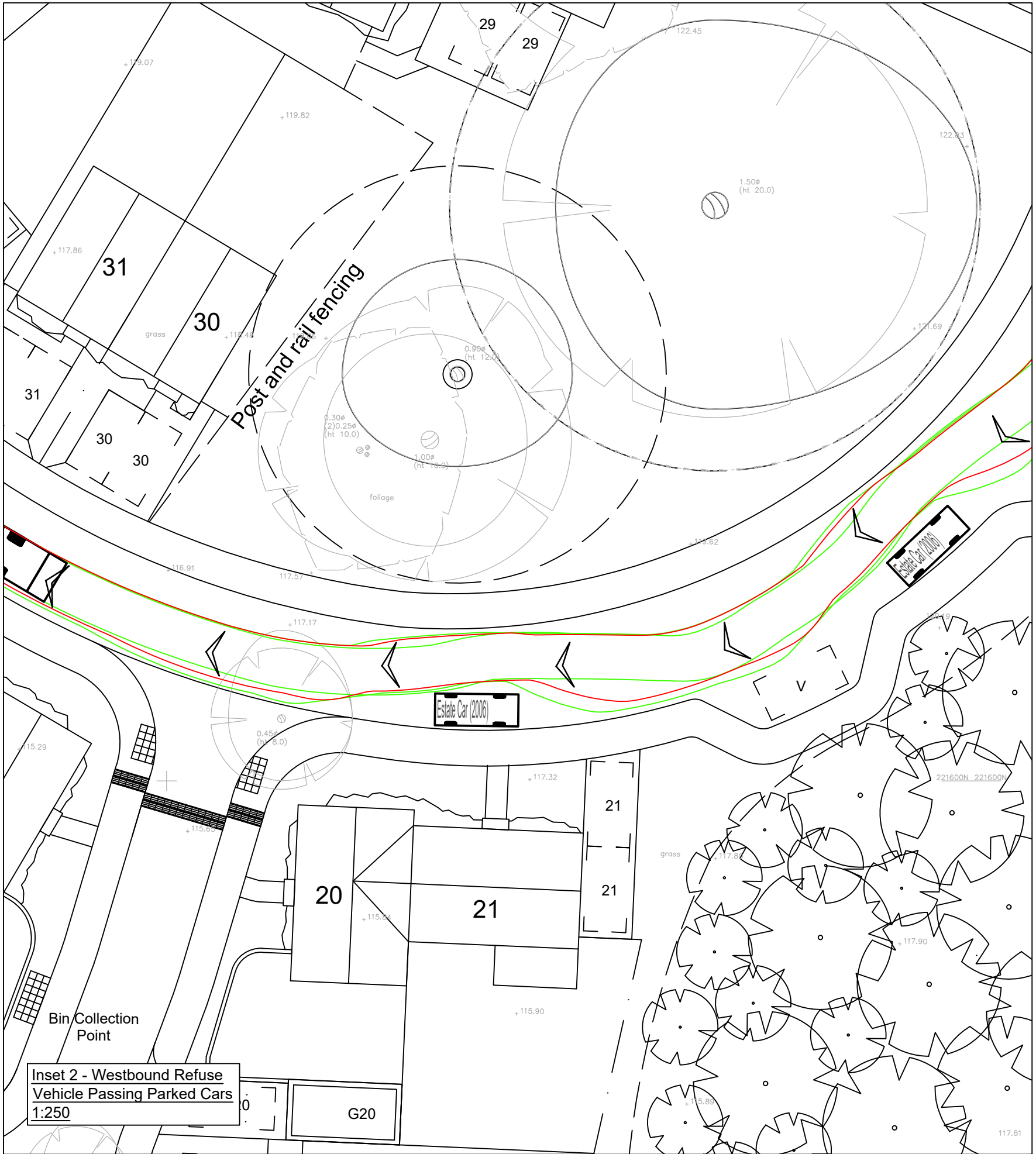
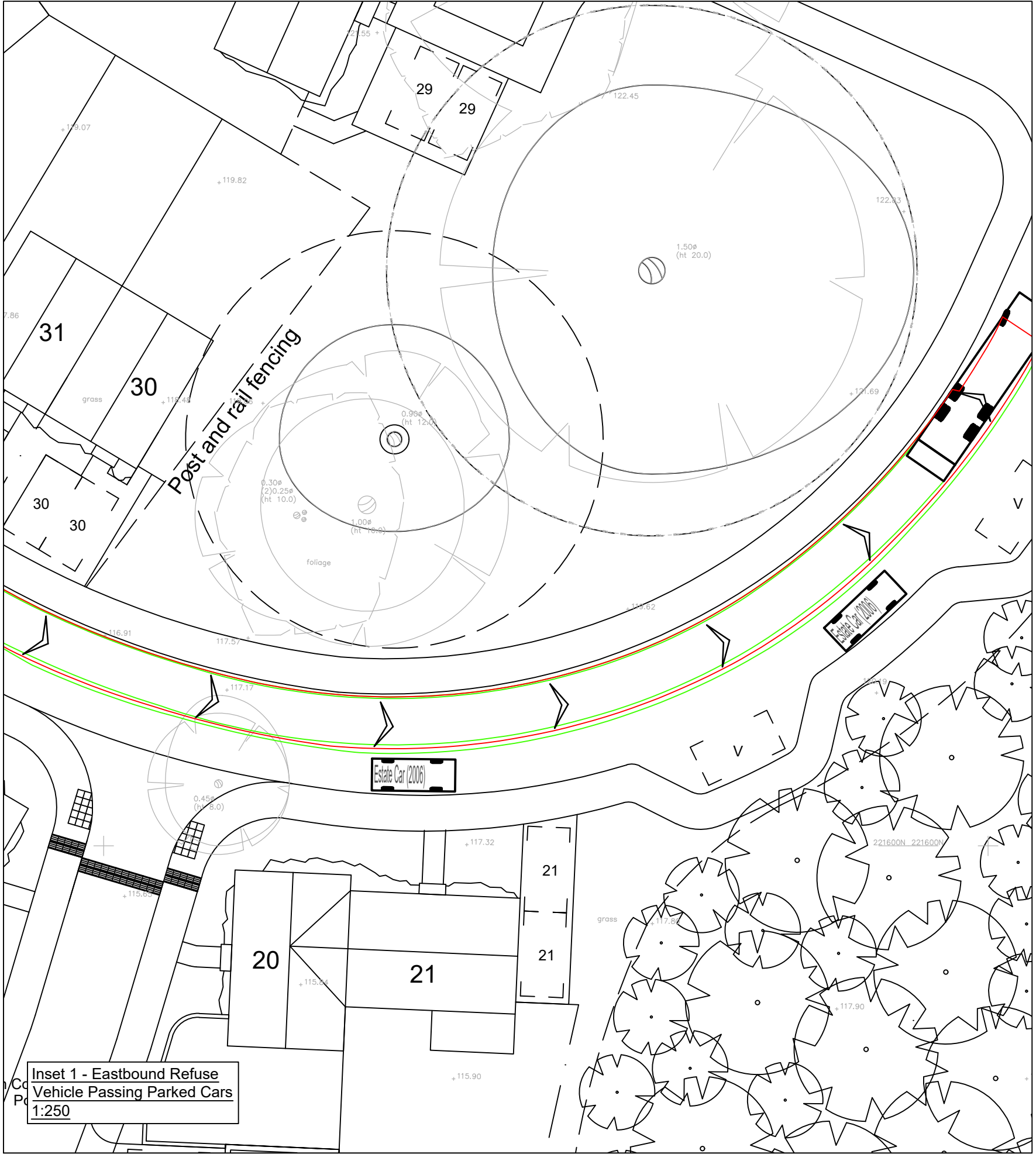
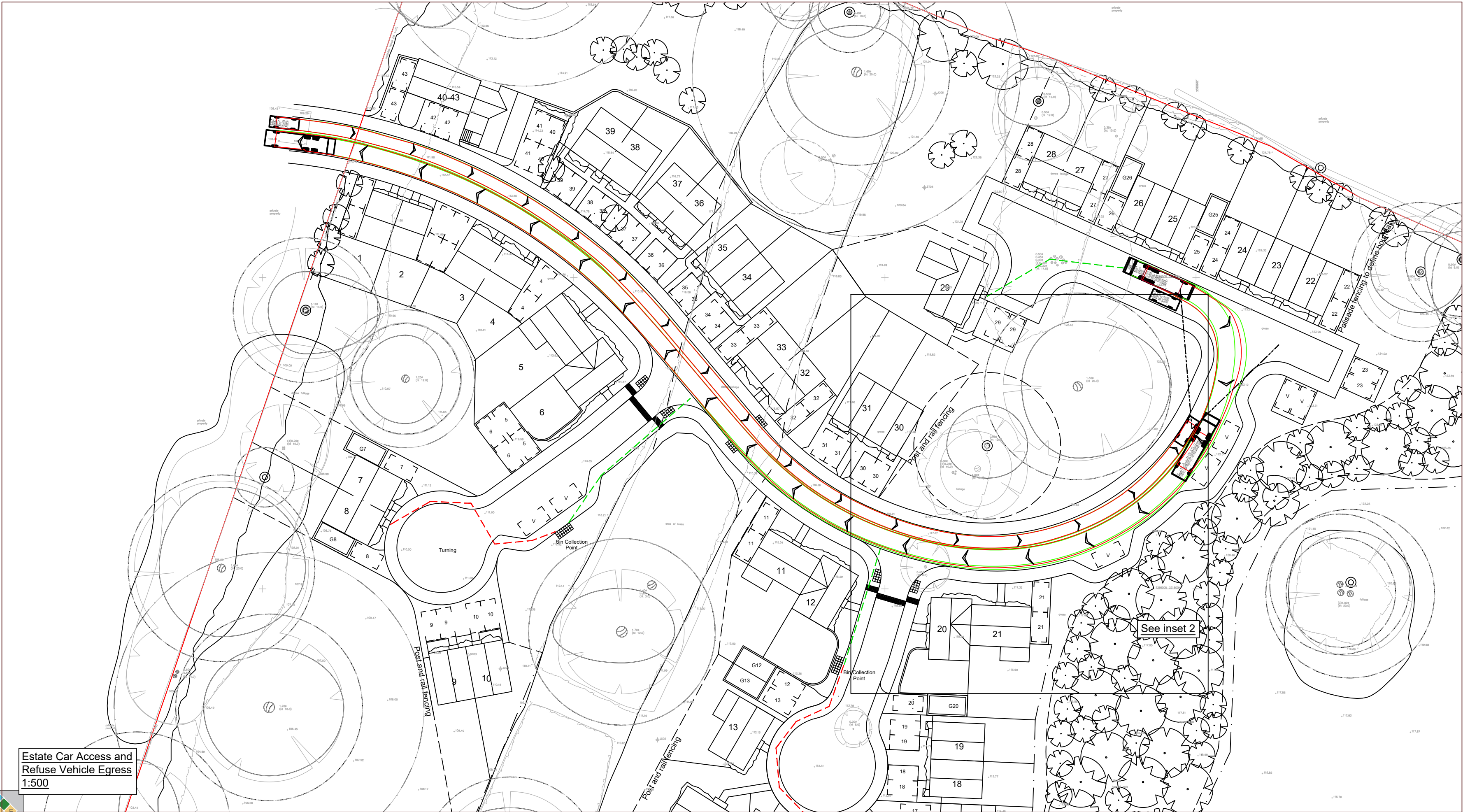
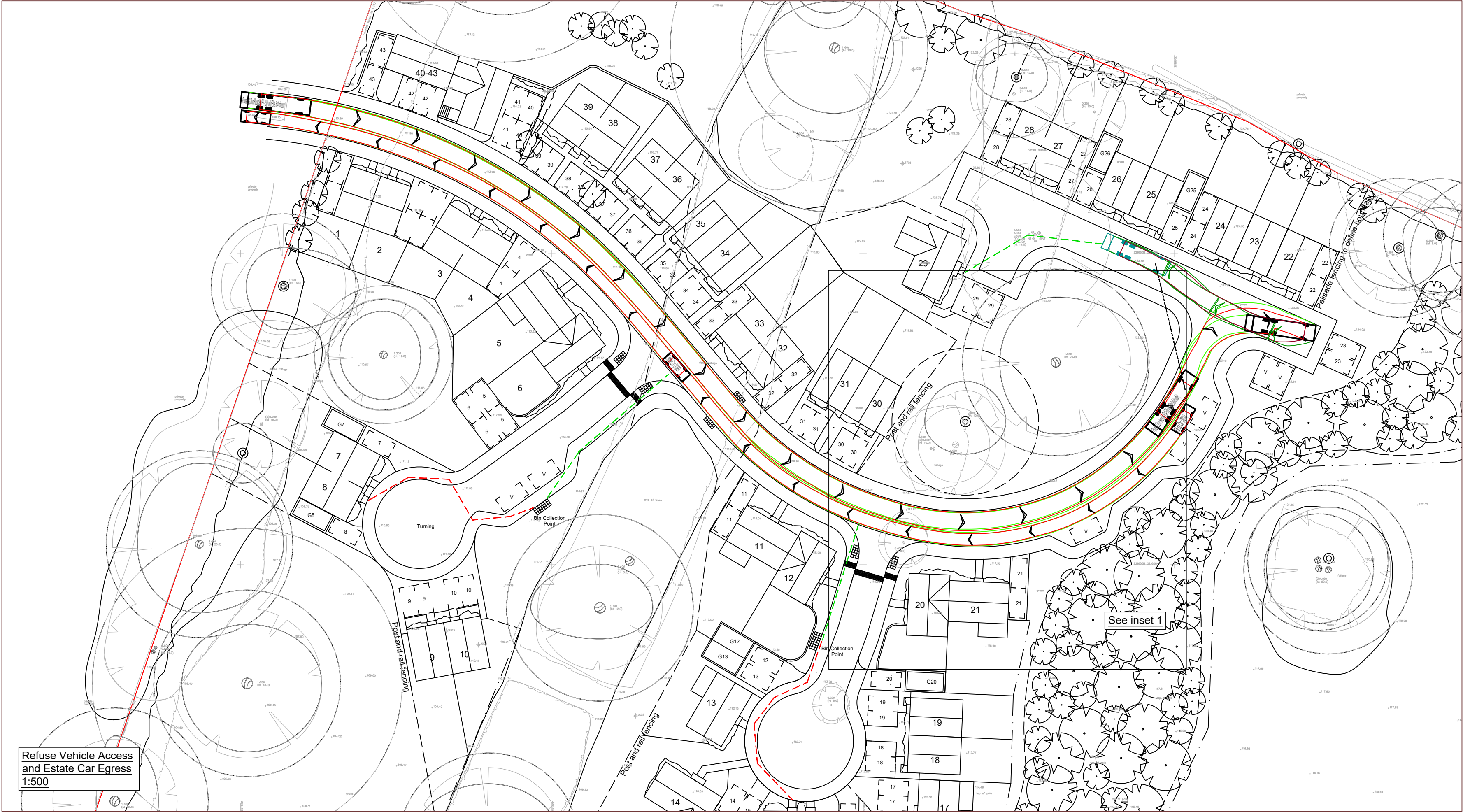
CLIENT: WMCL

PROJECT: Land off Oakhurst Rise,
Charlton Kings

TITLE: Preliminary Site Assessment

STATUS: INFORMATION

SCALE @ A1: as shown	DATE: 09.05.17	DRAWN: LG	CHECKED: MP	APPROVED: MP
JOB NO: CTP-16-332	DRAWING NO: SK09	REVISION: V		



- Notes:
- Do not scale from this drawing. All dimensions are in metres, unless stated otherwise.
 - Drawing to be read in conjunction with all other drawings. Any discrepancies are to be reported to the engineer 5 working days in advance of undertaking any work.
 - This drawing is based on the Architects layout received from coombes:everitt architects limited on 24/04/2020.
 - Work to be undertaken in accordance with the Gloucestershire County Council Technical Specification for New Streets.
 - Ordnance Survey, (c) Crown Copyright 2020. All rights reserved. Licence number 100022432.

- Inter-visibility between vehicles
- Max. 25m carry distance to refuse vehicle
- Max. 35m carry distance to bin collection point

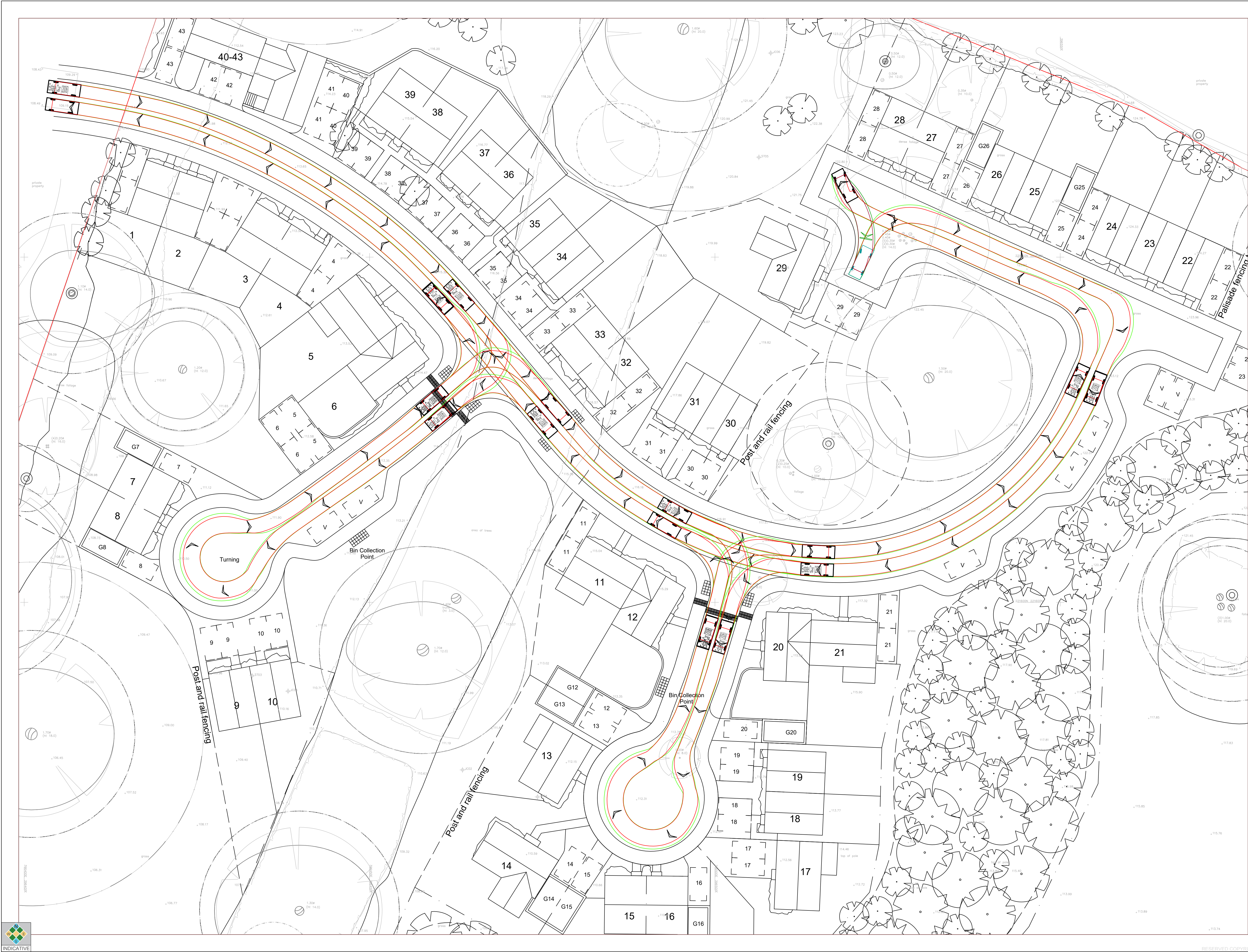
	Estate Car (2006)	
	Overall Length	4.710m
	Overall Width	1.884m
	Overall Body Height	1.442m
	Min Body Ground Clearance	0.207m
	Max Track Width	1.756m
	Lock to lock time	4.00s
	Kerb to Kerb Turning Radius	5.950m

	Phoenix 2 Duo Recycler (P2-15W with Elite 6x4 chassis)	
	Overall Length	11.220m
	Overall Width	2.530m
	Overall Body Height	3.760m
	Min Body Ground Clearance	0.309m
	Track Width	2.530m
	Lock to lock time	4.00s
	Kerb to Kerb Turning Radius	11.550m

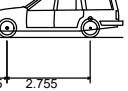
U	24.04.20	Amended to include latest masterplan	LG	MP
T	23.04.20	Amended to include latest masterplan	LG	MP
S	15.04.20	Updated to include latest masterplan	LG	MP
R	06.04.20	Revised scheme	LG	MP



CLIENT:	WMCL			
PROJECT: Land off Oakhurst Rise, Charlton Kings				
TITLE: Internal Site Road Swept Path Analysis - Refuse Vehicle/Estate Car				
STATUS: INFORMATION				
SCALE @ A1: 1:500	DATE: 07.12.16	DRAWN: LG	CHECKED: MP	APPROVED: MP
JOB NO: CTP-16-332	DRAWING NO: SP01		REVISION: U	



- Notes:**
1. Do not scale from this drawing. All dimensions are in metres, unless stated otherwise.
 2. Drawing to be read in conjunction with all other drawings. Any discrepancies are to be reported to the engineer 5 working days in advance of undertaking any work.
 3. This drawing is based on the Architects layout received from coombes:everitt architects limited on 24/04/2020.
 4. Work to be undertaken in accordance with the Gloucestershire County Council Technical Specification for New Streets.
 5. Ordnance Survey, (c) Crown Copyright 2020. All rights reserved. Licence number 100022432.

	
Estate Car (2006)	4.710m
Overall Length	1.804m
Overall Width	1.442m
Min Body Ground Clearance	0.207m
Max Track Width	1.758m
Lock to lock time	4.00s
Kerb to Kerb Turning Radius	5.550m

Rev	Date	Details	Drawn by	Checked by
D	23.04.20	Amended to include latest masterplan	LG	MP
P	15.04.20	Updated to include revised layout	LG	MP
N	06.04.20	Revised scheme	LG	MP

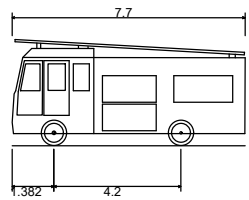


CLIENT:	WMCL			
PROJECT:	Land off Oakhurst Rise, Charlton Kings			
TITLE:	Internal Site Road Swept Path Analysis - Estate Car			
STATUS:	INFORMATION			
SCALE @ A1:	DATE:	DRAWN:	CHECKED:	APPROVED:
1:250	07.12.16	LG	MP	MP
JOB NO:	DRAWING NO:			REVISION:
CTP-16-332	SP02			R



Notes:

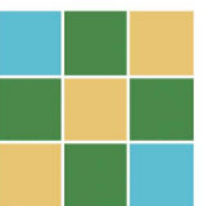
1. Do not scale from this drawing. All dimensions are in metres, unless stated otherwise.
2. Drawing to be read in conjunction with all other drawings. Any discrepancies are to be reported to the engineer 5 working days in advance of undertaking any work.
3. This drawing is based on the Architects layout received from coombes:everitt architects limited on 23/04/2020.
4. Work to be undertaken in accordance with the Gloucestershire County Council Technical Specification for New Streets.
5. Ordnance Survey, (c) Crown Copyright 2020. All rights reserved. Licence number 100022432.



Dennis Sabre Fire Tender (LWB)

Overall Length	7.700m
Overall Width	2.430m
Overall Body Height	3.512m
Min Body Ground Clearance	0.397m
Track Width	2.380m
Lock to lock time	5.00s
Kerb to Kerb Turning Radius	7.400m

C	24.04.20	Amended to include revised masterplan	LG	MP
B	23.04.20	Amended to include revised masterplan	LG	MP
A	16.04.20	Updated to include revised masterplan	LG	MP
Rev	Date	Details	Drawn By	Checked By



COTSWOLD
TRANSPORT
PLANNING

CLIENT: WMCL

PROJECT: Land off Oakhurst Rise, Charlton Kings

TITLE: Internal Site Road Swept Path Analysis - Fire Tender

STATUS: INFORMATION

SCALE @ A1:	DATE:	DRAWN:	CHECKED:	APPROVED:
1:250	06.04.20	LG	MP	MP
JOB NO:	DRAWING NO:	REVISION:		
CTP-16-332	SP07	C		



RESERVED COPYRIGHT

APPENDIX I: 2011 Census Car Ownership

E36002902 Battledown Dwelling Type	Dwelling Ownership		Total: Number of Dwellings	No cars or vans in household	1 car or van in household	2 cars or vans in household	3 or more cars or vans in household
House or bungalow	Owned: Owned outright or with a mortgage or loan	Total: Numbe	1,684	130	695	679	180
House or bungalow	Owned: Owned outright or with a mortgage or loan	1 - 3 rooms	18	5	11	2	0
House or bungalow	Owned: Owned outright or with a mortgage or loan	4 rooms	138	29	74	29	6
House or bungalow	Owned: Owned outright or with a mortgage or loan	5 rooms	321	45	157	106	13
House or bungalow	Owned: Owned outright or with a mortgage or loan	6 rooms	352	27	176	128	21
House or bungalow	Owned: Owned outright or with a mortgage or loan	7 rooms	323	18	136	138	31
House or bungalow	Owned: Owned outright or with a mortgage or loan	8 or more roo	532	6	141	276	109
House or bungalow	Shared ownership; rented and living rent free	Total: Numbe	328	64	156	84	24
House or bungalow	Shared ownership; rented and living rent free	1 - 3 rooms	23	11	8	4	0
House or bungalow	Shared ownership; rented and living rent free	4 rooms	56	12	32	11	1
House or bungalow	Shared ownership; rented and living rent free	5 rooms	106	19	54	27	6
House or bungalow	Shared ownership; rented and living rent free	6 rooms	76	15	31	20	10
House or bungalow	Shared ownership; rented and living rent free	7 rooms	32	5	16	7	4
House or bungalow	Shared ownership; rented and living rent free	8 or more roo	35	2	15	15	3
Flat, maisonette or apartment	Owned: Owned outright or with a mortgage or loan	Total: Numbe	153	48	82	22	1
Flat, maisonette or apartment	Owned: Owned outright or with a mortgage or loan	1 - 3 rooms	41	11	25	4	1
Flat, maisonette or apartment	Owned: Owned outright or with a mortgage or loan	4 rooms	94	31	52	11	0
Flat, maisonette or apartment	Owned: Owned outright or with a mortgage or loan	5 rooms	12	5	3	4	0
Flat, maisonette or apartment	Owned: Owned outright or with a mortgage or loan	6 rooms	4	0	2	2	0
Flat, maisonette or apartment	Owned: Owned outright or with a mortgage or loan	7 rooms	0	0	0	0	0
Flat, maisonette or apartment	Owned: Owned outright or with a mortgage or loan	8 or more roo	2	1	0	1	0
Flat, maisonette or apartment	Shared ownership; rented and living rent free	Total: Numbe	141	35	83	20	3
Flat, maisonette or apartment	Shared ownership; rented and living rent free	1 - 3 rooms	58	18	32	8	0
Flat, maisonette or apartment	Shared ownership; rented and living rent free	4 rooms	61	14	40	6	1
Flat, maisonette or apartment	Shared ownership; rented and living rent free	5 rooms	15	3	9	3	0
Flat, maisonette or apartment	Shared ownership; rented and living rent free	6 rooms	3	0	2	0	1

Flat, maisonette or apartment	Shared ownership; rented and living rent free	7 rooms	4	0	0	3	1
Flat, maisonette or apartment	Shared ownership; rented and living rent free	8 or more roo	0	0	0	0	0

Bedrooms	Rooms
1	1/3
2	4
3	5
4	6
5	7
6	8+

2011 Average Car Ownership per dwelling	2022 TEMPRO Growth Rate	2021 Average Car Ownership
1.54	1.1568	1.781
0.83	1.1568	0.964
1.09	1.1568	1.257
1.27	1.1568	1.470
1.41	1.1568	1.627
1.56	1.1568	1.809
1.92	1.1568	2.218
1.21	1.1568	1.397
0.70	1.1568	0.805
1.02	1.1568	1.177
1.19	1.1568	1.375
1.33	1.1568	1.537
1.31	1.1568	1.518
1.54	1.1568	1.785
	1.1568	0.000
0.84	1.1568	0.975
0.88	1.1568	1.016
0.79	1.1568	0.911
0.92	1.1568	1.060
1.50	1.1568	1.735
	1.1568	0.000
1.00	1.1568	1.157
0.94	1.1568	1.083
0.83	1.1568	0.957
0.90	1.1568	1.043
1.00	1.1568	1.157
1.67	1.1568	1.928

2.25	1.1568	2.603
0.00	1.1568	0.000

Client: **William Morrison**
Project Title: **Oakhurst Rise, Cheltenham**
Date: **15/12/2016**
Project Code: **CTP-16-332**

Time AM Peak **0800 - 0900**
 PM Peak **1700 - 1800**

AM 2016-2017 Growth rate 1.0141
PM 2016-2017 Growth rate 1.0138

AM 2016-2022 Growth rate 1.0852
PM 2016-2022 Growth rate 1.0836

TFD 01 2016 BASE TRAFFIC FLOWS
TFD 02 2017 BASE TRAFFIC FLOWS
TFD 03 2022 BASE TRAFFIC FLOWS
TFD 04 DEVELOPMENT TRIP ASSIGNMENT (%)
TFD 05 DEVELOPMENT TRAFFIC FLOWS
TFD 06 2022 BASE + DEVELOPMENT TRAFFIC