

Project Number	T25.102	Project Name	Hornbeam Close Parking Survey
Noted by	Katie Williams & Wyn Davies		
Subject	Hornbeam Close Parking Survey	Date	January 2025

Technical Note

1 Introduction

1.1 Background

- 1.1.1 Asbri Transport Limited have been appointed by Merthyr Valleys Homes to undertake a Parking Survey in support of a planning application for the proposed 4 residential dwellings at Hornbeam Close, Merthyr Tydfil. This Technical Note (TN) reports on the survey and summarises the results.
- 1.1.2 The development site is located within the Gurnos residential area of Merthyr, assessable via Gurnos Ring Road, on an existing dedicated off-street parking area. The existing off-street parking area is proposed to be replaced by 4 Passivhaus residential units (3 1-bed, 1 2-bed) as shown in **Appendix A**. The proposals include for 5 dedicated parking spaces, including one disabled space. Merthyr Tydfil County Borough Council have responded positively to the development during a pre-application meeting.
- 1.1.3 Nevertheless, the Authority have requested a Parking Survey is undertaken to provide an evidence base regarding the existing use of the parking area and identifying any parking issues in terms of parking demand and supply that may be present in the vicinity of the proposed development site.
- 1.1.4 The location of the site is shown in **Figure 1.1**, with the local highway network surrounding the site is shown in **Figure 1.2**. The existing parking area is located immediately to the north of Hornbeam Close, which is a one of three small residential cul de sac's (the others being Arbutus close and Crapapple Close, which are offshoots of the larger cul de sac, Fernhill Close).
- 1.1.5 Fernhill Close connects with the wider road network via the Gurnos Ring Road.



Figure 1.1 Site location



Figure 1.2 Local highway network

2 Parking Survey

2.1 Introduction

2.1.1 As discussed in Section 1, pre-application discussions with the Highway Authority have requested a parking survey for the proposed development to consider the loss of off-street parking resulting from the scheme.

2.1.2 The parking demand survey were undertaken by Asbri Transport Limited on Thursday 16th January 2025 between the hours of 06:00 and 22:00. To provide a comprehensive evidence base of parking supply and demand in the vicinity of the development site the parking survey includes on-street parking along covered Fernhill Close, Hornbeam Close, Arbutus Close and Crabapple Close in addition to the three off-street parking areas present.

2.1.3 These off-street parking areas are located immediately to the north of Hornbeam Close, immediately to the north of Arbutus Close and between Arbutus Close and Crabapple Close.

2.1.4 Along these residential streets, while in general on-street parking is largely unrestricted on both sides of the carriageway away from junctions and parking area entrances there are a small number of areas of dropped kerbs in relation to residential driveways.

2.1.5 The extent of on-street parking with restrictions is shown in **Figure 2.1**. It is also evident that both Arbutus Close and Crabapple Close have turning heads at the eastern ends of these roads, which are also used for on-street parking. For the purposes of this analysis these streets have been split into a number of discrete areas in order to provide a finer level of detail, which are listed below and shown in **Figure 2.2**:

- Off-Street Parking
 - o CP1 - Car Park 1: Hornbeam Close
 - o CP2 - Car Park 2: Arbutus Close
 - o CP3 - Car Park 3: Crabapple Close
- On-Street Parking
 - o OS1 - Off-Street 1: Hornbeam Close
 - o OS2 - Off-Street 2: Arbutus Close

- o OS3 - Off-Street 3: Crabapple Close
- o OS4 - Off-Street 4: Fernhill Cloes – Gurnos Ring Road to Hornbeam Close
- o OS5 - Off-Street 5: Hornbeam Close to Arbutus Close
- o OS6 - Off-Street 6: Arbutus Close to Crabapple Close



Figure 2.1 On-street parking restrictions



Figure 2.2 Parking Survey Areas

- 2.1.6 The parking survey consisted of hourly counts for each designated off-street and on-street areas between the hours of 06:00 and 22:00. QGIS software utilising satellite imagery was used to calculate the size of the off-street parking areas and the length of road on both sides of the carriageway available for on-street parking.
- 2.1.7 For the off-street parking areas, a parking space width of 2.5m was applied to the parking area dimensions to calculate the capacity of each area. For the off-street parking areas, a parking space length of 5.5m was applied to the parking area dimensions to calculate the capacity of each area.
- 2.1.8 Snapshots of the parking areas at 11am are shown in **Plate 2.1** to **Plate 2.4**.



Plate 2.1 Hornbeam Close Car Parking Area – looking from Fernhill Close



Plate 2.2 Arbutus Close Parking Area – looking north



Plate 2.3 Crabapple Close Parking Area – looking north



Plate 2.4 Crabapple Close – looking west

2.1.9 The parking survey results and associated occupancy levels are summarised in **Table 2.1**, with the average and maximum parking occupancy shown by area in **Figure 2.3**. The parking occupancy profiles throughout the day shown in **Figure 2.4**. For ease of interpretation the occupancy results have been colour coded into different bands as follows:

- 0-25% Green
- 25-50% Blue
- 50-75% Yellow
- 75-100% Amber
- >100% Red

2.1.10 For the dedicated car parking areas this shows an overall low level of use. For the Hornbeam Close parking area, the average occupancy across the survey period is 12% with a maximum occupancy of 17% late at night and early in the morning. The highest

parking levels in the parking areas is evident for the Crabapple Close Parking area, with an average occupancy of is 23% with a maximum occupancy of 30%.

2.1.11 Fernhill Close shows low levels of on-street parking with a maximum occupancy of 16% across the three survey areas.

2.1.12 While Hornbeam Close experience no on-street parking, Arbutus Close and Crabapple Close show moderate levels of occupancy with an average and maxim occupancy for Arbutus Close of 39% and 62% respectively. The average and maxim occupancy for Crabapple Close are 51% and 66% respectively.

2.1.13 Nevertheless, there is still ample parking supply along these roads.

Time	Fernhill Close/Hornbeam Close Parking Survey and Occupancy																	
	Parking Areas																	
	CP1		CP2		CP3		OS1		OS2		OS3		OS4		OS5		OS6	
	Capacity (Vehicles)																	
	30		29		56		12		24		24		12		33		31	
	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%	No.	%
6	5	17%	5	17%	16	29%	0	0%	15	62%	10	41%	0	0%	4	12%	1	3%
7	4	13%	6	21%	16	29%	0	0%	15	62%	10	41%	0	0%	4	12%	2	6%
8	2	7%	5	17%	14	25%	0	0%	10	41%	11	45%	0	0%	4	12%	1	3%
9	4	13%	6	21%	11	20%	0	0%	9	37%	11	45%	0	0%	3	9%	2	6%
10	4	13%	5	17%	11	20%	0	0%	6	25%	10	41%	1	8%	4	12%	4	12%
11	3	10%	3	10%	11	20%	0	0%	7	29%	11	45%	1	8%	4	12%	3	9%
12	3	10%	4	14%	10	18%	0	0%	8	33%	11	45%	0	0%	4	12%	2	6%
13	4	13%	5	17%	8	14%	0	0%	7	29%	10	41%	2	16%	4	12%	1	3%
14	3	10%	6	21%	9	16%	0	0%	8	33%	10	41%	2	16%	5	15%	2	6%
15	2	7%	5	17%	11	20%	0	0%	5	21%	13	53%	0	0%	1	3%	2	6%
16	2	7%	4	14%	11	20%	0	0%	7	29%	14	57%	0	0%	3	9%	4	12%
17	2	7%	5	17%	13	23%	0	0%	8	33%	16	66%	0	0%	3	9%	5	15%
18	3	10%	6	21%	15	27%	0	0%	8	33%	14	57%	0	0%	4	12%	3	9%
19	4	13%	6	21%	17	30%	0	0%	11	45%	15	62%	0	0%	4	12%	5	15%
20	4	13%	5	17%	16	29%	0	0%	11	45%	15	62%	0	0%	5	15%	5	15%
21	5	17%	6	21%	16	29%	0	0%	13	53%	16	66%	0	0%	4	12%	4	12%
22	5	17%	6	21%	17	30%	0	0%	13	53%	15	62%	0	0%	4	12%	5	15%
Ave	3	12%	5	18%	13	23%	0	0%	9	39%	12	51%	0	3%	4	12%	3	10%
Max	5	17%	6	21%	17	30%	0	0%	15	62%	16	66%	2	16%	5	15%	5	16%

Table 2.1 Parking Survey Data and Occupancy



Figure 2.3 Average & Maximum parking demand

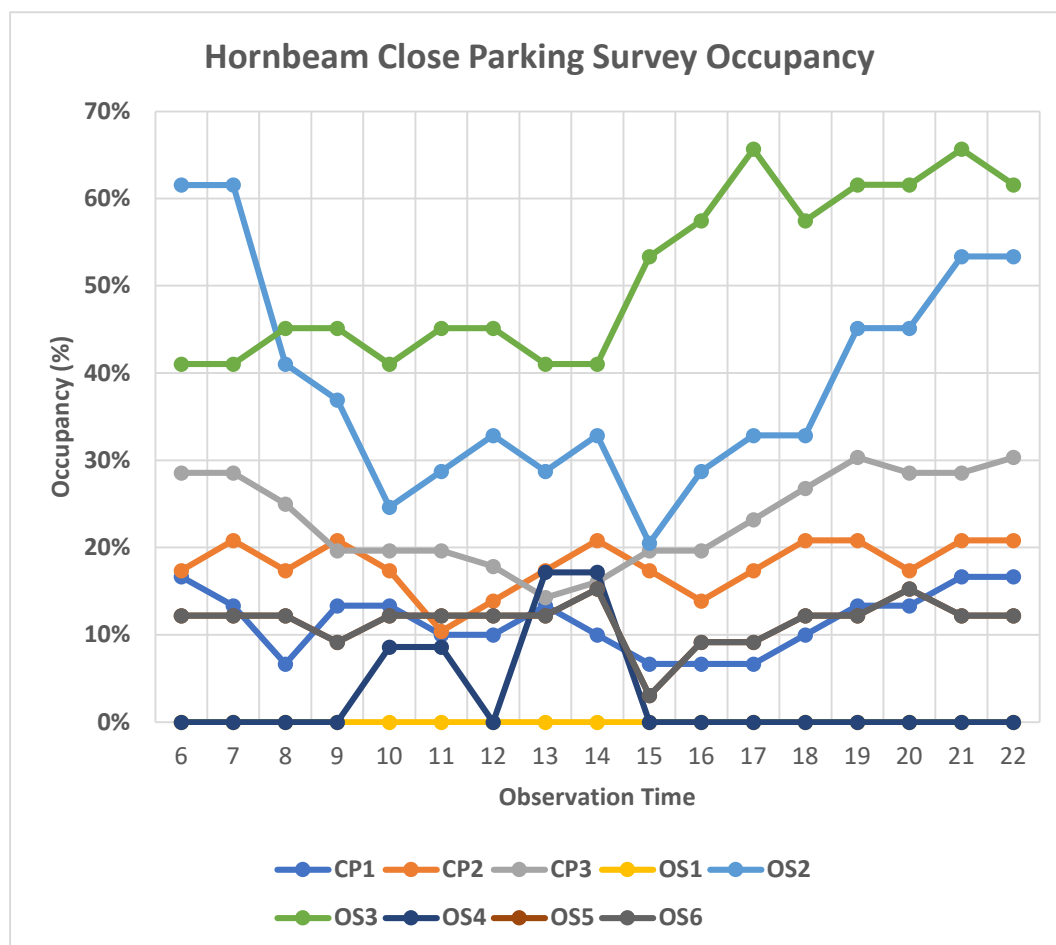


Figure 2.4 Parking Survey Occupancy Profile

3 Conclusion

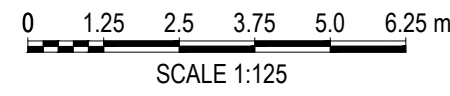
- 3.1.1 This data demonstrates that there are no particular parking issues on the surveyed residential streets, with ample spare capacity to accommodate for the loss of the Hornbeam Close parking area.

Appendices

Appendix A



SITE LAYOUT 1:125
FEASIBILITY LAYOUT



Suite 7, 35 Stow Park Circle
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Drawing Purpose Feasibility		Drawing No LTS418.03.01		Scale 1:125 @ A2	Revisions REV A AUG 24 LAUNDRY ROOM ADDED.	
Client Merthyr Valley Homes	Drawing Title Feasibility Layout	Date Aug 24	Checked KML	Revision A	Do not scale from this drawing. The users of this drawing shall check all dimensions & report all errors and omissions to LeTrucco Design. This drawing is copyright. It must not be copied, used or disclosed to third parties without prior permission of LeTrucco Design.	