

Technical Note 300794-001

Project:	Orchard Views, 39 Gawber Road, Barnsley	Project No:	300794
Subject:	Proposed Parking Arrangement		
Prepared by:	Ashley Armitage MIHE	Date:	04.05.2022
Checked by:	Karen Smith MIHE	Date:	05.05.2022

Sanderson Associates (Consulting Engineers) Limited has been appointed by Omar Sharif, to advise on parking arrangements relating to a proposed extension of the Orchards Views care home, located off Gawber Road in Barnsley

The existing care home has 48 bedrooms and a car park off Gawber Lane providing 8 parking spaces. The care home operator has advised that the maximum number of staff on shift at any one time is 10 staff which equates to 0.2 staff per bedroom. The operator has also confirmed that the average number of visitors throughout the day is 5, with about 1-2 visitors at a given time.

The proposed development consists of the erection of a two and three storey extension which would result in an additional 21 bedrooms. Based on current staffing levels (0.2 per bed) the client would expect an additional 4-5 members of staff to be required on site at any one time.

Table 1 of Barnsley Councils Parking SPD provides standards for C2 uses. The following are the stated number of spaces recommended for the Urban Barnsley area.

- 1 space per 4-8 staff and 1 space per 4 daily visitors.

Based on these standards the proposal would be expected to provide 2-4 spaces for staff. As a worse case, if it is assumed that there is a visitor every day for each bedroom (69 visitors), then 17 spaces would be recommended, however, this is considered to be a highly unlikely scenario.

It is, therefore, proposed to provide a total of 18 spaces. The parking area, accessed from Gawber Road as at present, would also include a dedicated ambulance bay. The proposed car parking arrangements are shown on Drawing 300794-001 and Drawing 300794-002 demonstrates that a car can access the spaces and exiting the site in a forward gear. Both of these plans are attached at **Appendix A**.

To provide a robust assessment of the vehicle trips that could be generated, trip rates for the land use category 05 - Health / F – Care Home have been obtained from the TRICS (v7.9.1) database. These have then been used to estimate the potential parking accumulation at the application site. The search parameters have been refined to resemble the location of the site and excludes sites within Greater London and Ireland. The TRICS data is contained at **Appendix B** and are summarised in the following table.

Time Period		Trip Rate per bed		Trip Generation		Accumulation
		Arr	Dep	Arr	Dep	
07:00	08:00	0.122	0.053	9	4	5
08:00	09:00	0.089	0.058	6	4	7
09:00	10:00	0.096	0.043	7	3	11
10:00	11:00	0.076	0.053	5	4	12
11:00	12:00	0.078	0.066	5	4	13
12:00	13:00	0.086	0.071	6	5	14
13:00	14:00	0.106	0.099	7	7	14
14:00	15:00	0.109	0.144	8	10	12
15:00	16:00	0.099	0.147	7	10	9
16:00	17:00	0.061	0.122	4	8	5
17:00	18:00	0.048	0.081	3	6	2
18:00	19:00	0.046	0.030	3	2	3
19:00	20:00	0.048	0.071	3	5	2
20:00	21:00	0.033	0.048	2	3	0

Table 1 - Predicted Parking Accumulation, Care Home – 69 beds

As can be seen from the above table, the parking accumulation assessment estimates a peak occupancy of 14 vehicles. It is, therefore, considered that the level of car parking to be provided is sufficient and that the parking proposal provides an appropriate layout as well as including disabled provision and an ambulance bay.

APPENDIX A

APPENDIX B

TRIP RATE CALCULATION SELECTION PARAMETERS:

Land Use : 05 - HEALTH
 Category : F - CARE HOME (ELDERLY RESIDENTIAL)

TOTAL VEHICLESSelected regions and areas:

02 SOUTH EAST		
ES	EAST SUSSEX	1 days
HC	HAMPSHIRE	1 days
05 EAST MIDLANDS		
DS	DERBYSHIRE	1 days
NT	NOTTINGHAMSHIRE	1 days
07 YORKSHIRE & NORTH LINCOLNSHIRE		
NY	NORTH YORKSHIRE	1 days
08 NORTH WEST		
LC	LANCASHIRE	1 days
09 NORTH		
TW	TYNE & WEAR	1 days
11 SCOTLAND		
SR	STIRLING	1 days

Primary Filtering selection:

Parameter: Number of residents
 Actual Range: 31 to 70 (units:)
 Range Selected by User: 30 to 90 (units:)

Parking Spaces Range: All Surveys Included

Public Transport Provision:

Selection by: Include all surveys

Date Range: 01/01/14 to 02/05/19

Selected survey days:

Monday	2 days
Tuesday	3 days
Wednesday	2 days
Thursday	1 days

Selected survey types:

Manual count	8 days
Directional ATC Count	0 days

Selected Locations:

Edge of Town Centre	2
Suburban Area (PPS6 Out of Centre)	3
Edge of Town	3

Selected Location Sub Categories:

Residential Zone	6
No Sub Category	2

Secondary Filtering selection:Use Class:

C2 8 days

Population within 500m Range:

All Surveys Included

Secondary Filtering selection (Cont.):Population within 1 mile:

5,001 to 10,000	3 days
10,001 to 15,000	1 days
15,001 to 20,000	2 days
25,001 to 50,000	2 days

Population within 5 miles:

25,001 to 50,000	2 days
50,001 to 75,000	2 days
125,001 to 250,000	1 days
250,001 to 500,000	3 days

Car ownership within 5 miles:

0.6 to 1.0	3 days
1.1 to 1.5	5 days

Travel Plan:

No	8 days
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PTAL Rating:

No PTAL Present	8 days
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LIST OF SITES relevant to selection parameters

1	DS-05-F-01	NURSING HOME	DERBYSHIRE
	29 VILLAGE STREET DERBY		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of residents:	70	
	Survey date: <i>TUESDAY</i>	21/10/14	Survey Type: <i>MANUAL</i>
2	ES-05-F-02	CARE HOME	EAST SUSSEX
	BATTLE ROAD HAILSHAM		
	Edge of Town Centre Residential Zone		
	Total Number of residents:	69	
	Survey date: <i>WEDNESDAY</i>	13/07/16	Survey Type: <i>MANUAL</i>
3	HC-05-F-01	CARE HOME	HAMPSHIRE
	BOTLEY ROAD SOUTHAMPTON		
	Edge of Town No Sub Category		
	Total Number of residents:	42	
	Survey date: <i>TUESDAY</i>	24/11/15	Survey Type: <i>MANUAL</i>
4	LC-05-F-02	NURSING HOME	LANCASHIRE
	LYTHAM ROAD BLACKPOOL SQUIRES GATE		
	Edge of Town Residential Zone		
	Total Number of residents:	31	
	Survey date: <i>TUESDAY</i>	27/09/16	Survey Type: <i>MANUAL</i>
5	NT-05-F-02	NURSING HOME	NOTTINGHAMSHIRE
	MOOR LANE NEAR NOTTINGHAM BINGHAM		
	Edge of Town Centre No Sub Category		
	Total Number of residents:	34	
	Survey date: <i>MONDAY</i>	14/11/16	Survey Type: <i>MANUAL</i>
6	NY-05-F-05	NURSING HOME	NORTH YORKSHIRE
	SEAGRIM CRESCENT RICHMOND		
	Edge of Town Residential Zone		
	Total Number of residents:	37	
	Survey date: <i>MONDAY</i>	04/03/19	Survey Type: <i>MANUAL</i>
7	SR-05-F-01	NURSING HOME	STIRLING
	PERTH ROAD DUNBLANE		
	Suburban Area (PPS6 Out of Centre) Residential Zone		
	Total Number of residents:	60	
	Survey date: <i>WEDNESDAY</i>	18/06/14	Survey Type: <i>MANUAL</i>

LIST OF SITES relevant to selection parameters (Cont.)

<p>8 TW-05-F-03 MOORE STREET GATESHEAD FELLING SHORE Suburban Area (PPS6 Out of Centre) Residential Zone Total Number of residents: 52 Survey date: THURSDAY 02/05/19</p>	<p>NURSING HOME</p>	<p>TYNE & WEAR</p> <p>Survey Type: MANUAL</p>
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TRIP RATE for Land Use 05 - HEALTH/F - CARE HOME (ELDERLY RESIDENTIAL)

TOTAL VEHICLES**Calculation factor: 1 RESIDE****BOLD print indicates peak (busiest) period**

Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate
00:00 - 01:00									
01:00 - 02:00									
02:00 - 03:00									
03:00 - 04:00									
04:00 - 05:00									
05:00 - 06:00									
06:00 - 07:00									
07:00 - 08:00	8	49	0.122	8	49	0.053	8	49	0.175
08:00 - 09:00	8	49	0.089	8	49	0.058	8	49	0.147
09:00 - 10:00	8	49	0.096	8	49	0.043	8	49	0.139
10:00 - 11:00	8	49	0.076	8	49	0.053	8	49	0.129
11:00 - 12:00	8	49	0.078	8	49	0.066	8	49	0.144
12:00 - 13:00	8	49	0.086	8	49	0.071	8	49	0.157
13:00 - 14:00	8	49	0.106	8	49	0.099	8	49	0.205
14:00 - 15:00	8	49	0.109	8	49	0.144	8	49	0.253
15:00 - 16:00	8	49	0.099	8	49	0.147	8	49	0.246
16:00 - 17:00	8	49	0.061	8	49	0.122	8	49	0.183
17:00 - 18:00	8	49	0.048	8	49	0.081	8	49	0.129
18:00 - 19:00	8	49	0.046	8	49	0.030	8	49	0.076
19:00 - 20:00	8	49	0.048	8	49	0.071	8	49	0.119
20:00 - 21:00	8	49	0.033	8	49	0.048	8	49	0.081
21:00 - 22:00									
22:00 - 23:00									
23:00 - 24:00									
Total Rates:			1.097			1.086			2.183

Parameter summary

Trip rate parameter range selected: 31 - 70 (units:)
 Survey date date range: 01/01/14 - 02/05/19
 Number of weekdays (Monday-Friday): 8
 Number of Saturdays: 0
 Number of Sundays: 0
 Surveys automatically removed from selection: 0
 Surveys manually removed from selection: 0