



47.5m

Swept path analysis

Materials & parking layout

Key

- Proposed tarmac
- Proposed cellular casing filled with crushed stone with plastic insets to delineate parking

Northbound
85%ile = 30.80 mph
49.56 kph

$$SSD=vt+v^2/2(d+0.1a)$$

where:

v = speed (m/s)
t = driver reaction time (s)
d = deceleration (m/s²)
1kph= 0.2778 m/s

v= 13.77
t= 1.5
d= 4.41
a= 0

vt= 20.65
v²= 189.50
2(d+0.1a)= 8.82

SSD= 42.13 m
plus 2.4 44.53 inc bonet length

Southbound
85%ile = 30.30 mph
48.75 kph

$$SSD=vt+v^2/2(d+0.1a)$$

where:

v = speed (m/s)
t = driver reaction time (s)
d = deceleration (m/s²)
1kph= 0.2778 m/s

v= 13.54
t= 1.5
d= 4.41
a= 0

vt= 20.31
v²= 183.40
2(d+0.1a)= 8.82

SSD= 41.11 m
plus 2.4 43.51 inc bonet length

47.5m

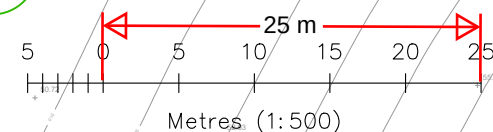
2.4 x 44m visibility splay to a
1m carriageway offset

2.4 x 45m visibility splay

Bird boxes to be provided
on retained tree line

Indicative proposed
wild cherry tree

Double staggered hedgerow:
25% Hawthorn
25% Field Maple
50% Mixed Black Thorn
(Hazel, Beech, Wild Rose,
Holly, Dog Rose, Common
Dog Wood)

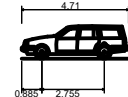


Visibility Splays

DO NOT SCALE

Notes:

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- If received electronically it is the recipients responsibility to print to correct scale. Only written dimensions should be used.
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- Drawing is based on OS data and a topographical survey.
- Visibility splays have been based on a week long ATC Survey carried out for the week commencing 3rd of December 2022 by K&M Traffic Surveys Ltd. The survey has recorded 85th percentile speeds of 30.8mph and 30.3mph for northbound and southbound traffic respectively. These speeds have been used within the calculations set out in Manual for Streets 2 to determine the required visibility splays at the access point.



Estate Car (2006)
Overall Length
Overall Width
Overall Body Height
Min Body Ground Clearance
Max Track Width
Lock to lock time
Kerb to Kerb Turning Radius

4.710m
1.804m
1.442m
0.207m
1.756m
4.00s
5.950m

P5	23.10.23	MM	Amended Parking Numbers	JM	CS
P4	09.10.23	MM	Added Ecology Details	JM	CS
P3	03.04.23	MM	Added Ecology Details	JM	CS
P2	21.02.23	JM	Updated Material	CS	CS
P1	17.02.23	MM	First Issue	JM	CS

REV	DATE	BY	DESCRIPTION	CHK	APD
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client
VINEYARD FARMS LTD

project
BROOKER FARM, LUDESDOWN

title
PROPOSED ACCESS DESIGN AND PARKING LAYOUT

project	19020	drwg	H-01	rev	P5
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Drawn	MM	Checked	JM	Approved	CS	scale @ A3	1:500	date	23.10.23
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status	FOR INFORMATION	P
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CAD Reference: A3