

Mr Baker
C/O Symonds and Sampson
89 Crane St
Salisbury
SP1 2PU

17 September 2018
Our Ref: SYSA/18/D1527

Dear Mr Baker

RE: LAND AT NYTON STABLES, NYTON ROAD, ALDINBOURNE, PO20 3TX

1. Background

- a. Instructions were received from Mr Coles of Symonds and Sampson to prepare a drainage appraisal for the development of a site at Nyton Stables, Nyton Road, Aldingbourne, PO20 3TX.
- b. The appraisal has been prepared to support your new planning application for 13 No. permanent mobile homes, 17 No. touring caravans and associated hardstandings and landscaping.
- c. It is understood that the existing site already caters for 9 No. permanent mobile homes and 12 No. touring caravans so the net increase will be 4 No. mobile homes and 5 No. touring caravans.
- d. The site is currently accessed via an existing bellmouth off Nyton Road and will be served by a new unkerbed access road and associated hard standing following the development.
- e. At the time of writing it is noted that the majority of the hardstanding areas have already been constructed and the factual evidence presented in this report is based upon the information provided by the client.

2. Development Description & Location

- a. The site is located in a rural area and is surrounded by land that is used predominantly for agricultural purposes.
- b. The site is currently in residential use with an area in the order of 2.13ha. The current impermeable area is 1784m² and there is a porous hardstanding area of 10841m². The site falls generally north-east to south-west towards Aldingbourne.

P.T.O

6. Proposed Surface Water Drainage

- a. There have recently been 2 No. developments adjacent to the site known as The Birches and Nyton Stables (Farm Shop). It is evident that both developments benefit from a simple surface water drainage strategy utilising SUDS techniques (infiltration). Both sites have been constructed with all external hardstand areas formed using a shallow permeable pavement system. This has been accepted by Arun DC and the relevant planning conditions relating to drainage have been discharged.
- b. The SUDS manual and Building Regulations sets out a hierarchy of drainage methods to ensure that developments maximise the use of sustainable drainage techniques. In short, this hierarchy favours infiltration methods of disposal over other methods such as water courses or sewers.
- c. Given the above information, it is reasonable to conclude that infiltration methods of drainage will operate successfully.
- d. Surface water storage will be provided by using the voids available in the sub base of a permeable/porous paving construction. This ensures the surface water storage is located as high as possible and is protected from groundwater ingress should groundwater levels become elevated.
- e. The pre & post development impermeable areas have been assessed as follows:

Existing Impermeable Area	1784m ²
Proposed Impermeable Area	2169m ²
Difference	385m ² (increase)

- f. In order to balance the impermeable areas, 2 No. areas of gravel will be reverted to grass and/or landscaping.
- g. The pre & post development permeable surfaced areas have been assessed as follows:

Existing Porous Hardstand Area	10841m ²
Proposed Porous Hardstand Area	12555m ²
Difference	1714m ² (increase)

- h. The existing hardstand areas are confirmed to be a permeable pavement system with a 450mm construction depth comprising 300mm (min) sub-base material (chalk) with a 150mm (min) compacted gravel running surface (road scalping's mix).
- i. Where new gravel hardstand areas are proposed these will be installed with a 450mm construction depth comprising 300mm (min) sub-base material (32% void CGA), a geotextile membrane, with a 150mm (min) compacted gravel running surface (road scalping's mix to match the existing).
- j. Micro Drainage permeable paving calculations show that for a 1 in 100 year +40% critical storm the new porous pavement significantly exceeds the storage requirements to deal with the nominal increases.
- k. The strategy above will ensure that there is no increase in the amount of run-off leaving the site which in turn will ensure that there will be no increase in the risk of flooding from this source either on or off of the site.

P.T.O

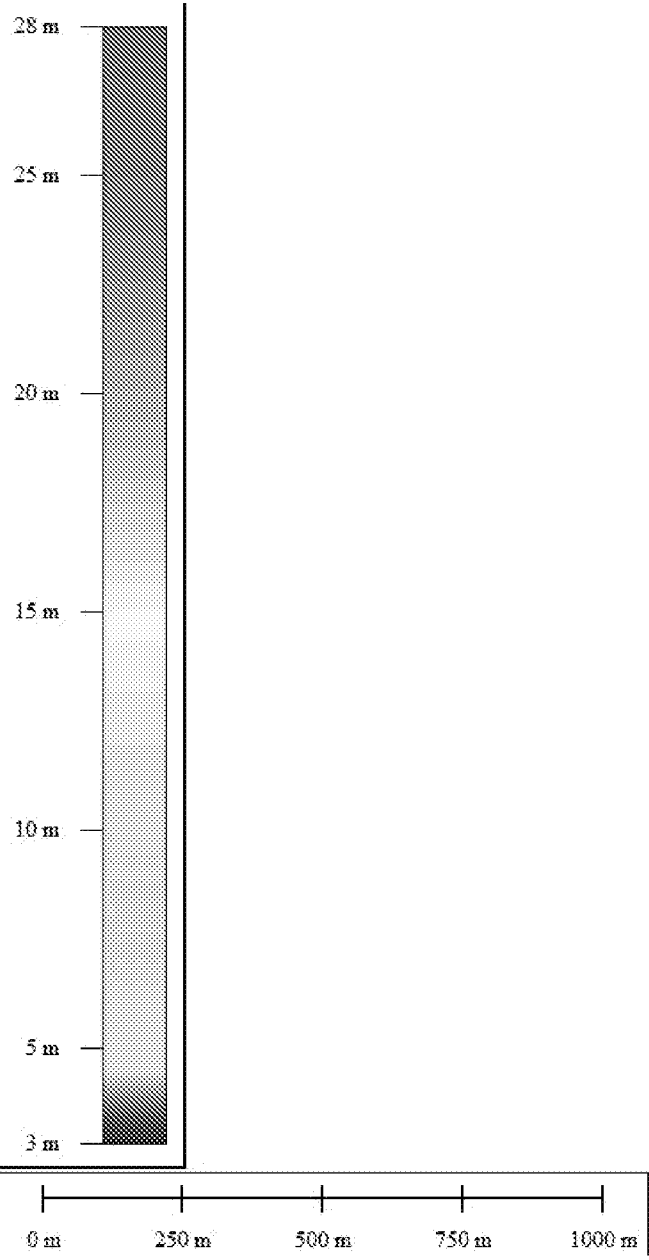
- l. In summary the proposed development will result in an increase in impermeable area, which will be mitigated by utilising SUDS techniques to mimic the existing scenario. We can be assured of this strategy being suitable given the reliance of the adjacent development information.
- m. To ensure compliance with Arun DC's 'Supplementary Requirements for Surface Water Drainage Proposals' additional site testing can be conditioned allowing this to be undertaken at detailed design stage.

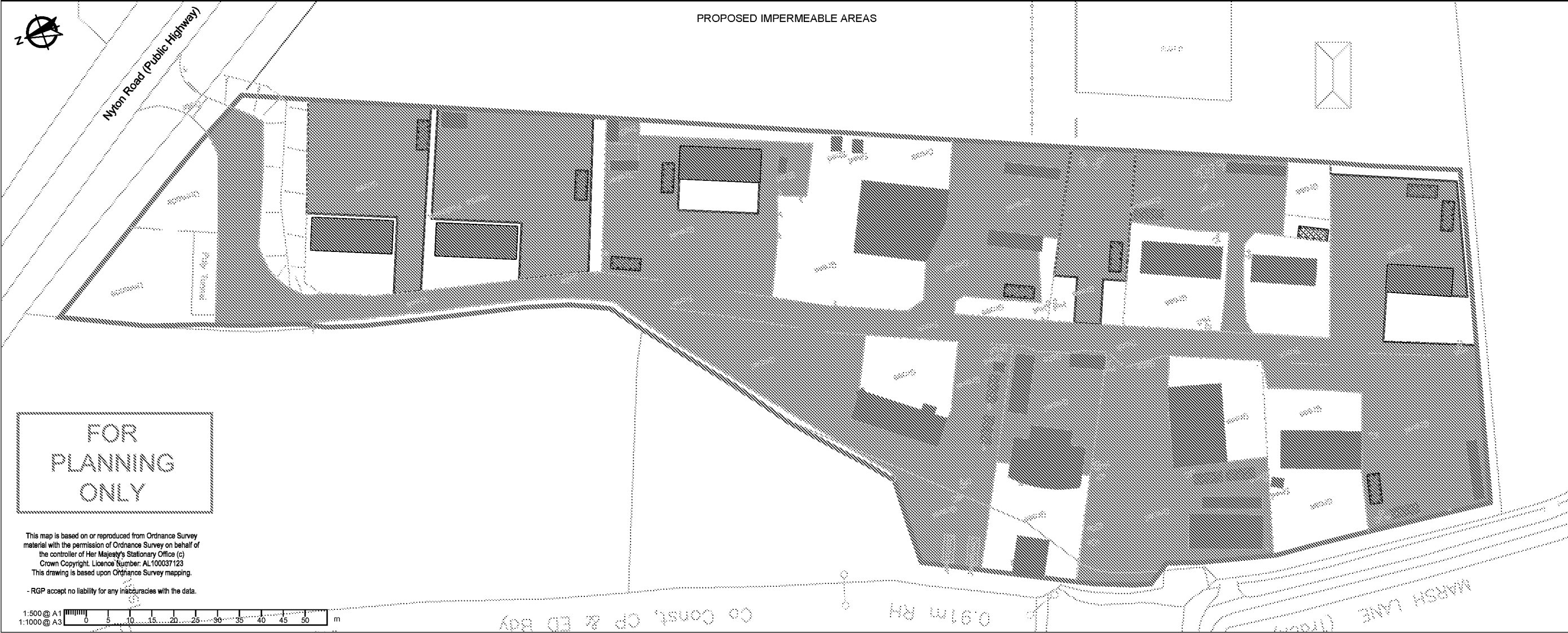
Yours sincerely,



Mark Akmenka lns
RGP Design Ltd

Encl LiDAR, Dwg SK001, Greenfield Run-off/Vol, Porous Pavement Simulation (Micro drainage)





NOTES

- This drawing is to be read in conjunction with all other RGP drawings, and with all relevant Architect's and Engineer's drawings and specification. Any discrepancies found are to be reported immediately to the Engineer.
- RGP accepts no responsibility for inaccuracies in data provided by third parties such as topographic surveys or Ordnance Survey mapping.
- Do not scale, work to figured dimensions only. All dimensions are in millimeters unless noted otherwise and all levels are in metres from the topographic survey datum.
- Any information given regarding existing underground services is given in good faith after consultation with the relevant authority, however accuracy is not certain. The main contractor is responsible for checking all information on site prior to work commencing and taking due care whilst undertaking the works.
- All dimensions to be checked on site. All details and dimensions relating to sub-contractors work must be checked and agreed between the sub-contractor or supplier and the general contractor.
- The electronic information from this drawing can not be guaranteed as dimensionally drawn exact. Figured dimensions must be used for setting out and detailing. RGP logos and company information must be removed from copies if information is re-used.
- The main contractor is responsible for the design of all temporary works, and is also responsible for the safe maintenance and stability of existing buildings at all times.
- The main contractor is responsible for dealing with all occurrences of ground water during the construction period.
- The contractor must comply with all current legislation relating to health & safety.
- All products specified shall be installed in strict accordance with the manufacturers recommendations and instructions. If there are discrepancies between that information and the details on any RGP drawings, the manufacturers instructions must be used.

DRAINAGE STRATEGY

Soil infiltration rate has been taken to be 1x10⁻⁶m/s (to be confirmed through on-site geotechnical investigation)

Ground water levels are to be confirmed below ground level.

RESIDUAL HAZARDS

In addition to the hazards/risks normally associated with the type of work detailed on this drawing, note the following:

- Uncharted buried services/structures. Contractor to use CAT prior to excavating.
- Excavations close to existing structures. Contractor to prepare method statement to ensure stability of existing structures.

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved risk assessment and method statement

KEY

	Site Boundary (2.13ha/21338m ²)
	Existing Impermeable Area (0.18ha/1857m ²)
	Existing Porous Hardstand (1.07ha/10753m ²)
	Proposed Impermeable Area (0.25ha/2559m ²)
	Proposed Porous Hardstand (1.23ha/12352m ²)
	Caravans Excluded as Impermeable Area

Rev	Date	Amendments	Drawn	Apr.
	09/01/2018	Original issue	SPB	MJA

rgp Design

Transport Planning and Infrastructure Design Consultants
2 West Barn, Norton Lane, Chichester PO20 3AT
Tel: 01243 210418 Fax: 01243 661682 www.rgp.co.uk

Client

Mr. Alex Baker

Project

Land at Nylon Stables
Nylon Road, Aldingbourne, West Sussex

Drawing Title

Impermeable Area Comparison

Scale	1:500	Drawn By	SPB	Checked By	LDF	Approved By	MJA
Date	September 2018	Drawing No.	2018-D1527-SK001				

Rev.

Rev.

RGP Design Limited		Page 1
2 West Barn Norton Lane Chichester PO20 3AF		
Date 12/09/2018 09:13 File	Designed by m.akmenkalns Checked by	
Innovyze		Source Control 2018.1
<u>ICP SUDS Mean Annual Flood</u> Input Return Period (years) 100 Soil 0.300 Area (ha) 2.130 Urban 0.000 SAAR (mm) 790 Region Number Region 7 Results l/s QBAR Rural 4.5 QBAR Urban 4.5 Q100 years 14.3 Q1 year 3.8 Q30 years 10.1 Q100 years 14.3		
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Date 12/09/2018 09:12 File	Designed by m.akmenkalns Checked by	
Innovyze Source Control 2018.1		

Greenfield Runoff Volume

FSR Data

Return Period (years)	100
Storm Duration (mins)	360
Region	England and Wales
M5-60 (mm)	19.800
Ratio R	0.325
Areal Reduction Factor	1.00
Area (ha)	2.130
SAAR (mm)	783
CWI	115.710
Urban	0.000
SPR	30.000

Results

Percentage Runoff (%)	32.22
Greenfield Runoff Volume (m ³)	461.169

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2 West Barn Norton Lane Chichester PO20 3AF		Nyton Road Aldingbourne																																																																																																																																																																																																																					
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<u>Summary of Results for 100 year Return Period (+40%)</u> Half Drain Time : 79 minutes. <table><thead><tr><th>Storm Event</th><th>Max Level (m)</th><th>Max Depth (m)</th><th>Max Infiltration (l/s)</th><th>Max Volume (m³)</th><th>Status</th></tr></thead><tbody><tr><td>15 min Summer</td><td>9.619</td><td>0.069</td><td>8.8</td><td>36.3</td><td>O K</td></tr><tr><td>30 min Summer</td><td>9.644</td><td>0.094</td><td>8.8</td><td>49.8</td><td>O K</td></tr><tr><td>60 min Summer</td><td>9.664</td><td>0.114</td><td>8.8</td><td>60.5</td><td>O K</td></tr><tr><td>120 min Summer</td><td>9.676</td><td>0.126</td><td>8.8</td><td>66.7</td><td>O K</td></tr><tr><td>180 min Summer</td><td>9.676</td><td>0.126</td><td>8.8</td><td>66.9</td><td>O K</td></tr><tr><td>240 min Summer</td><td>9.673</td><td>0.123</td><td>8.8</td><td>65.0</td><td>O K</td></tr><tr><td>360 min Summer</td><td>9.662</td><td>0.112</td><td>8.8</td><td>59.5</td><td>O K</td></tr><tr><td>480 min 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Summary of Results for 100 year Return Period (+40%)					
Storm Event	Max Level (m)	Max Depth (m)	Max Infiltration (l/s)	Max Volume (m³)	Status
30 min Winter	9.659	0.109	8.8	57.6	O K
60 min Winter	9.683	0.133	8.8	70.3	O K
120 min Winter	9.694	0.144	8.8	76.1	O K
180 min Winter	9.692	0.142	8.8	75.1	O K
240 min Winter	9.685	0.135	8.8	71.4	O K
360 min Winter	9.667	0.117	8.8	62.0	O K
480 min Winter	9.648	0.098	8.8	51.9	O K
600 min Winter	9.631	0.081	8.8	42.6	O K
720 min Winter	9.616	0.066	8.8	34.8	O K
960 min Winter	9.598	0.048	8.5	25.7	O K
1440 min Winter	9.587	0.037	6.5	19.4	O K
2160 min Winter	9.577	0.027	4.8	14.5	O K
2880 min Winter	9.572	0.022	3.9	11.6	O K
4320 min Winter	9.566	0.016	2.9	8.5	O K
5760 min Winter	9.563	0.013	2.2	6.8	O K
7200 min Winter	9.561	0.011	1.9	5.6	O K
8640 min Winter	9.559	0.009	1.6	4.9	O K
10080 min Winter	9.558	0.008	1.5	4.3	O K
Storm Event	Rain (mm/hr)	Flooded Volume (m³)	Time-Peak (mins)		
30 min Winter	86.406	0.0	31		
60 min Winter	56.129	0.0	58		
120 min Winter	35.114	0.0	96		
180 min Winter	26.225	0.0	134		
240 min Winter	21.187	0.0	172		
360 min Winter	15.698	0.0	244		
480 min Winter	12.666	0.0	310		
600 min Winter	10.713	0.0	370		
720 min Winter	9.338	0.0	426		
960 min Winter	7.509	0.0	522		
1440 min Winter	5.511	0.0	764		
2160 min Winter	4.035	0.0	1128		
2880 min Winter	3.229	0.0	1468		
4320 min Winter	2.354	0.0	2180		
5760 min Winter	1.883	0.0	2944		
7200 min Winter	1.584	0.0	3672		
8640 min Winter	1.375	0.0	4408		
10080 min Winter	1.221	0.0	5064		
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2 West Barn Norton Lane Chichester PO20 3AF	Nyton Road Aldingbourne																																		
Date 12/09/2018 10:05 File D1527 Porous.srcx	Designed by MJA Checked by LDF																																		
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