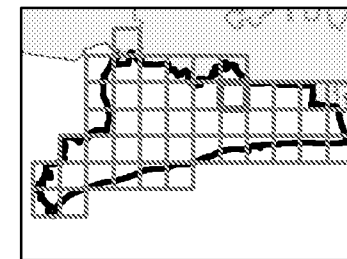


Appendix 8
Extracts from SFRA
and Flow Paths



~~Kok, Ron~~



~~Learn~~



☆ Get in Liffhampston distance

Debate types and registers

***** (b)(6); (b)(7)(C), (b)(7)(D) Agency

***** Spontaneous Failure

Embarkment Unknown

██████████ Web Enforcement Agency

***** work, Local Authority

~~~~~ Vol. Private

XXXXXXXX Single Beach Environment Access

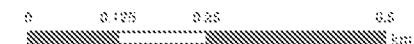
~~~~~ Single Search Local Authority

~~~~~ Estoril Beach, Little Neck, N.Y. ~~~~~

Shore Beach, Puerto

~~~~~ Single Search, Waiting Source

Unknown



| REF | Date | Comments |
|-----|-----------|----------|
| A | Aug 20-07 | |
| B | | |
| C | | |

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ARUN DISTRICT COUNCIL

LEVEL 1 SFRA: APPENDIX 1
DEFENCES

Page No: 25 of 48

Index Number: A05_05

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Notes:

The Arun SFRA is a strategic assessment of flooding. Users of the SFRA should be aware of this when interpreting the information presented. The user is directed to the SFRA reports which outline the uncertainties associated with the studies. Particular attention is drawn to the following:

- Flood extent boundaries are not considered definitive. Land adjacent to these areas may also be at risk.
- Some flooding mechanisms have not been included in the assessment. The 'coastal risk area' is based on advice from LA Engineers and requires further assessment.

Arun District Council SFRA

Map B - Residual Risk from Breach



CAPITA SYMONDS

Legend

- Arun District Boundary
- Main River
- Modelled Fluvial Breach Extents - Residual Risk
- Modelled Tidal Breach Extents - Residual Risk
- Proposed Breach Locations



0 2 4

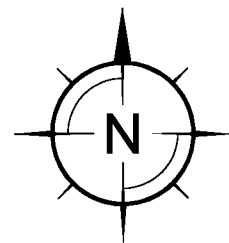
Kilometres

Scale at A3: 1:80,000

Date: 31/01/2008

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Map_B.doc



TITLE
Thornlea Park, Littlehampton
Existing Contours With Fall Arrows

SCALE
Not to Scale @ A3

DRG. No.
4



Arun District Council SFRA

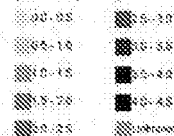
Map A3-F - Flood Velocity - Actual Risk of Flooding from Rivers



CAPITA SYMONDS

Arun District Boundary

Actual Indicative River Flood Velocities
(1% AEP, 2006)





Notes:

The Arun SFRA is a strategic assessment of flooding. Users of the SFRA should be aware of this when interpreting the information presented. The user is directed to the SFRA reports which outline the uncertainties associated with the studies. Particular attention is drawn to the following:

- Flood extent boundaries are not considered definitive. Land adjacent to these areas may also be at risk.
- Some flooding mechanisms have not been included in the assessment. The 'coastal risk area' is based on advice from LA Engineers and requires further assessment.

Arun District Council SFRA

Map A3-T - Flood Velocity - Actual Risk of Flooding from the Sea



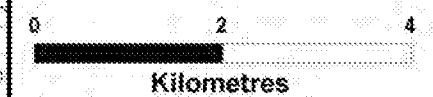
CAPITA SYMONDS

Legend

- Arun District Boundary
- Coastal Risk Area

Actual Indicative Tidal Flood Velocities (0.5% AEP, 2008)

| | |
|-----------|-----------|
| 0.0 - 0.5 | 2.5 - 3.0 |
| 0.6 - 1.0 | 3.0 - 3.5 |
| 1.0 - 1.5 | 3.5 - 4.0 |
| 1.5 - 2.0 | 4.0 - 4.5 |
| 2.0 - 2.5 | Unknown |



Scale at A3: 1:80,000

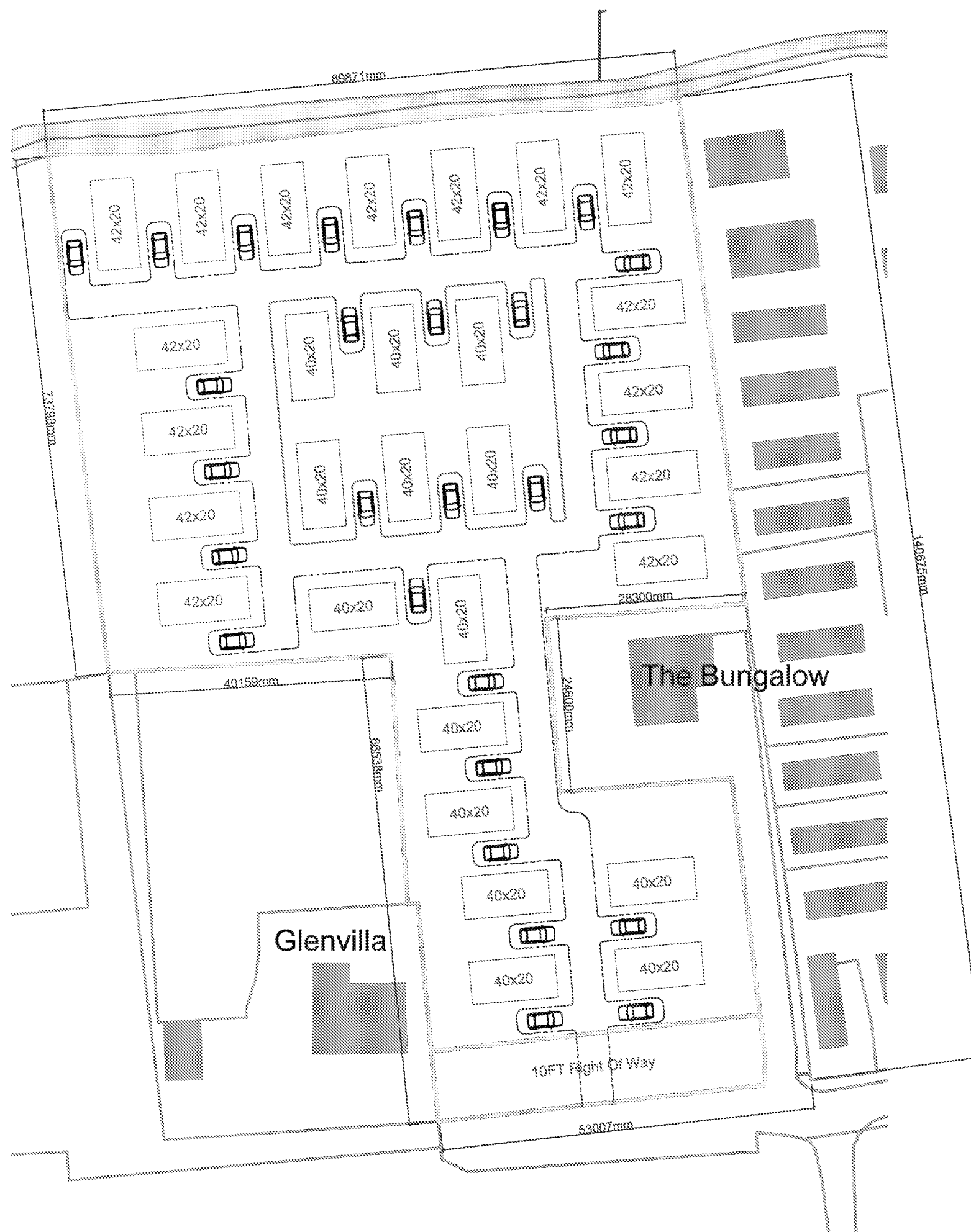
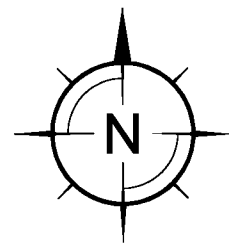
Date: 31/01/2008

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Map_A3-T.wor

Appendix 9

Proposed Site Layout



TITLE
Thornlea Park, Littlehampton
Proposed Site Layout
Mobile Homes

SCALE
Not to Scale @ A3

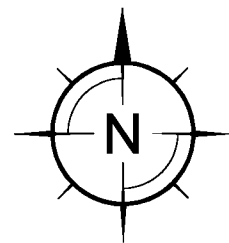
DRG. No.

5

Appendix 10

Preliminary Drainage Strategy

Layout and Calculations



| | |
|--------------------------|--------------------|
| Impermeable Areas | |
| Proposed Road Area = | 2125m ² |
| Mobile Home Roof Areas = | 2245m ² |
| Total Area = | 4370m ² |

TITLE
Thornlea Park, Littlehampton
Impermeable Areas
Mobile Homes

SCALE
Not to Scale @ A3

DRG. No.

6

Storage Calculation

Project Name: Thornlea Park, Littlehampton - Mobile Homes
Project Number: 22827

Impermeable Area

Impermeable Area 4,365 m²
Equivalent Greenfield Runoff 5.15 l/s/ha
Outflow Restriction 2.3 l/s
 (Minimum Practical = 5l/s)

Return Storm Period Assessments available are: 1, 2, 5, 10, 20, 25, 50, 100 years.

Ratio r1 in the range 0.12, 0.15, 0.18, 0.21, 0.24, 0.27, 0.30-0.45

40% Additional Rainfall to account for Climate Change (Where Appropriate)

Storm Profiles

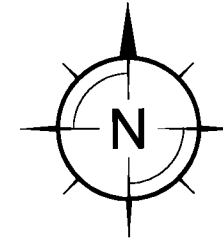
Return Period 100 years
M5-60 20 mm
Ratio r1 0.35

Consider Storms Beyond 6 hour duration? Yes ▼

| Storm Duration (mins) | Z1 | R M5-D (mm) | Z2 | R M(x)-D (mm) | I | Outflow | Storage Required |
|-----------------------|------|-------------|------|---------------|--------|---------|-----------------------|
| 5 | 0.36 | 7.20 | 1.84 | 18.55 | 80.96 | 0.69 | 80.27 m ³ |
| 10 | 0.51 | 10.20 | 1.91 | 27.27 | 119.05 | 1.38 | 117.67 m ³ |
| 15 | 0.62 | 12.40 | 1.95 | 33.85 | 147.76 | 2.07 | 145.69 m ³ |
| 30 | 0.79 | 15.80 | 1.99 | 44.02 | 192.14 | 4.14 | 188.00 m ³ |
| 60 | 1.00 | 20.00 | 2.03 | 56.84 | 248.11 | 8.28 | 239.83 m ³ |
| 120 | 1.23 | 24.60 | 2.01 | 69.22 | 302.16 | 16.56 | 285.60 m ³ |
| 180 | 1.37 | 27.40 | 1.99 | 76.34 | 333.21 | 24.84 | 308.37 m ³ |
| 240 | 1.51 | 30.20 | 1.97 | 83.29 | 363.57 | 33.12 | 330.45 m ³ |
| 300 | 1.60 | 32.00 | 1.96 | 87.58 | 382.30 | 41.40 | 340.90 m ³ |
| 360 | 1.69 | 33.80 | 1.94 | 91.80 | 400.71 | 49.68 | 351.03 m ³ |
| 480 | 1.82 | 36.30 | 1.93 | 97.83 | 427.02 | 66.24 | 360.78 m ³ |
| 600 | 1.94 | 38.80 | 1.91 | 103.75 | 452.87 | 82.80 | 370.07 m ³ |
| 840 | 2.09 | 41.89 | 1.88 | 110.49 | 482.31 | 115.92 | 366.39 m ³ |
| 1140 | 2.29 | 45.74 | 1.85 | 118.61 | 517.74 | 157.32 | 360.42 m ³ |
| 1440 | 2.48 | 49.60 | 1.82 | 126.38 | 551.65 | 198.72 | 352.93 m ³ |

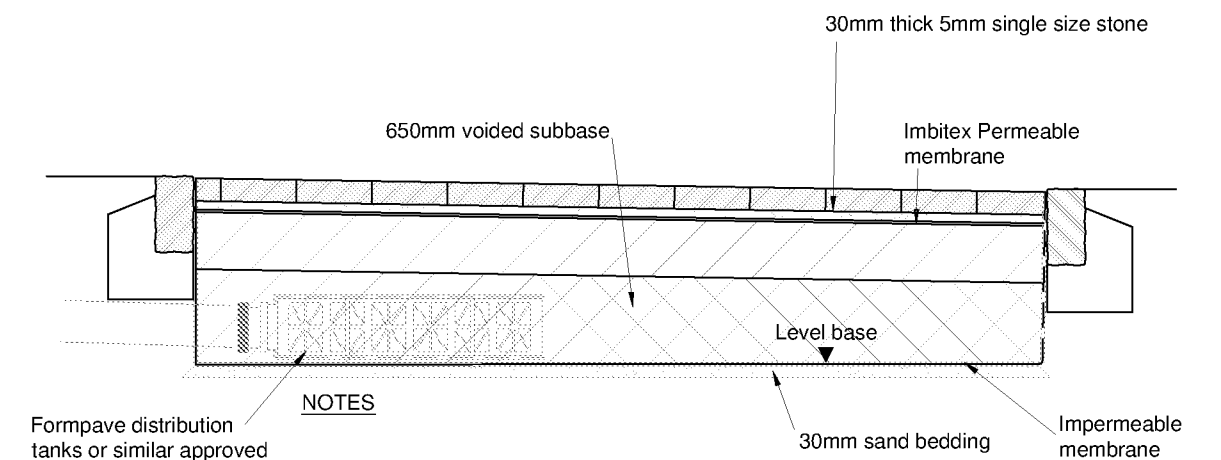
Peak Storage

370.1 m³



Impermeable Areas

-  Proposed Permeable paving
-  Mobile Home With Drainage Connection
-  Drainage Outflow - Restricted Discharge 2.3l/s



NOTES

* Specification for sub-base and laying course:-
the crushed stone must possess well defined edges
and have a minimum 10% fines value of 150kN
when tested in accordance with BS812 Part iii.

Note:
Formation to be level and the
surface is not sealed prior to
laying voided capping / sub base
to ensure infiltration to ground

INDICATIVE BLOCK PAVING ROAD CONSTRUCTION VOIDED SUBBASE STORAGE SYSTEM

(Scale 1:20)

TITLE
Thornlea Park, Littlehampton
Preliminary Drainage Strategy Layout
Mobile Homes

SCALE
Not to Scale @ A3

DRG. No.
7

Appendix 11

Outline Maintenance Schedule

Project Thornlea Park, Littlehampton
Project Number 22827
By Bava Sathan
Date 9 November 2017

The Civil Engineering Practice
 11 Tungsten Building
 George Street
 Fishersgate
 Sussex BN41 1RA



Indicative Schedule of maintenance for the proposed surface water drainage system:

| Maintenance Schedule | Required Action | Frequency |
|------------------------|---|------------------------|
| Regular Maintenance | Remove sediment and debris from silt trap chambers, gullies and inlet chambers | 6 monthly |
| | Litter and debris removal – above ground | Monthly or as required |
| | Litter and debris removal – catch pits and gullies | Monthly or as required |
| | Manage other vegetation and remove nuisance plants – aesthetics | As required |
| | Sweeping/brushing or permeable driveway | Twice Annually |
| Irregular Maintenance | Remove debris / blockages to silt traps/ gullies | As required |
| | Inspect pipe network and jetting | Every 2 years |
| Corrective Maintenance | Repairs to access chambers / MH covers | As required |
| | Replace any broken permeable blocks/surface, remedial works to any depressions or rutting | As required |
| | Inspect inlet, outlet from downpipe and gullies for blockages, standing water and clear | As required |



Thornlea Park, Littlehampton
Surface Water Maintenance Summary Sheet:
For Maintenance Management Company and Homeowners

| Inspection/
Action
Required | Gutters | Gullies | Catchpits
/ Silt
Traps/
Manholes | Permeable
Surface | Surface
Water
Pipework |
|-----------------------------------|---------|---------|---|----------------------|------------------------------|
| After leaf fall
in Autumn | ✓ | ✓ | ✓ | ✓ | |
| 6 Months | ✓ | ✓ | ✓ | | |
| 1 Year | | | | ✓ | |
| 2 Years | | | | | ✓ |