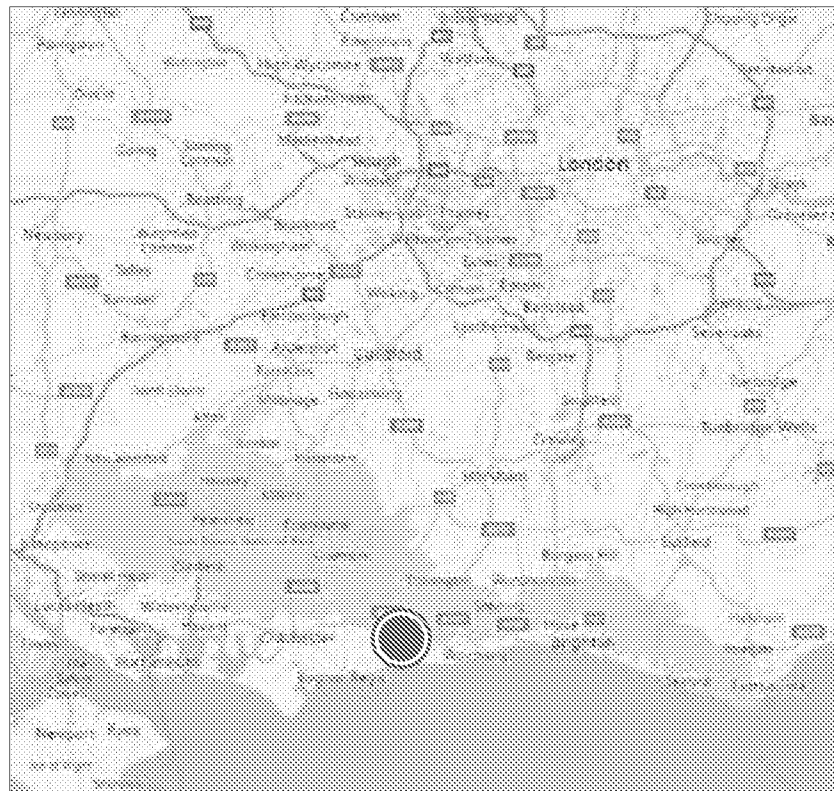
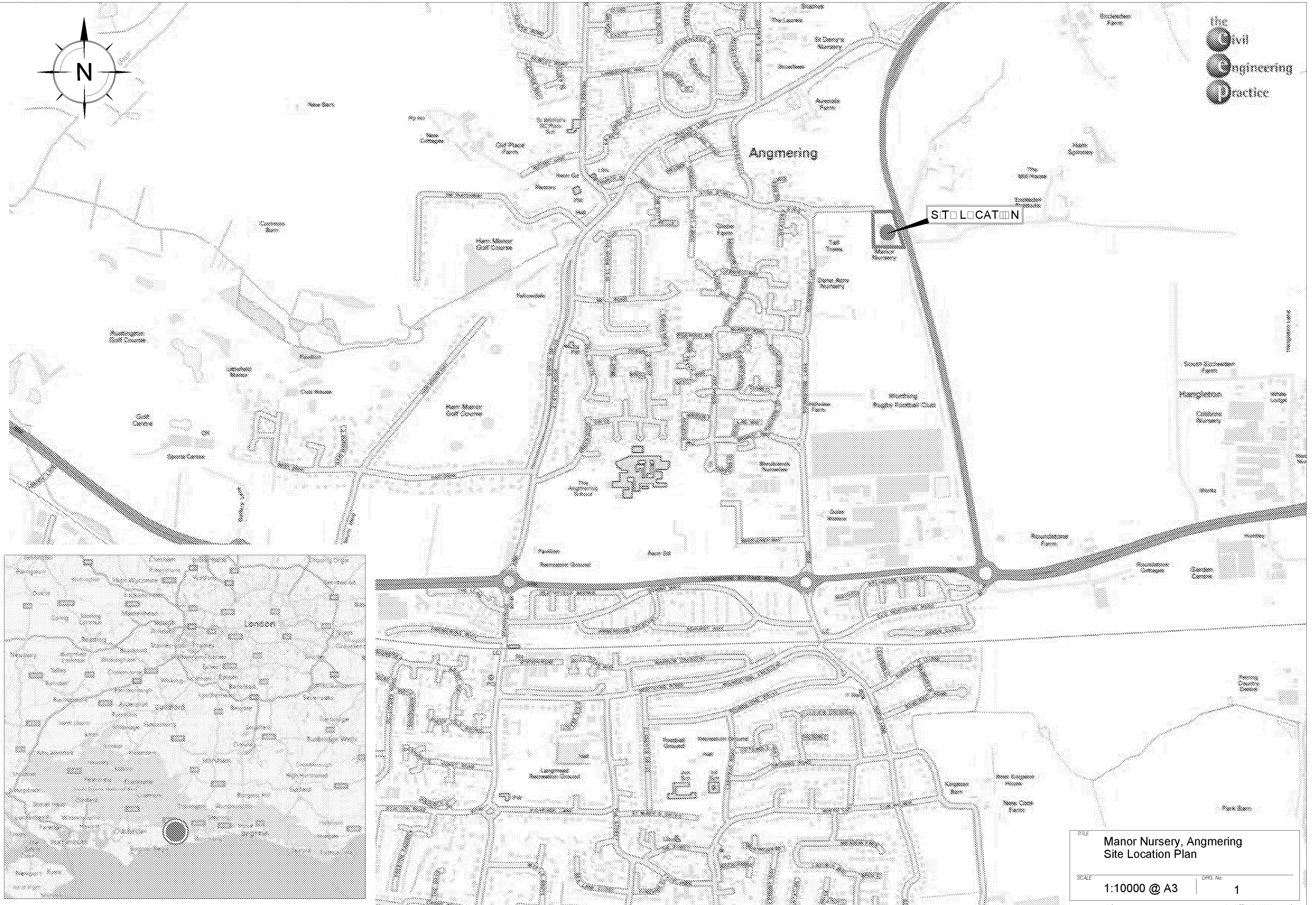
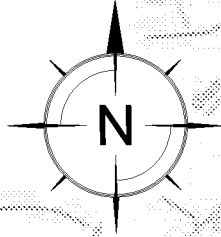
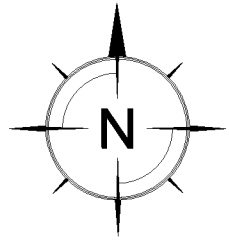


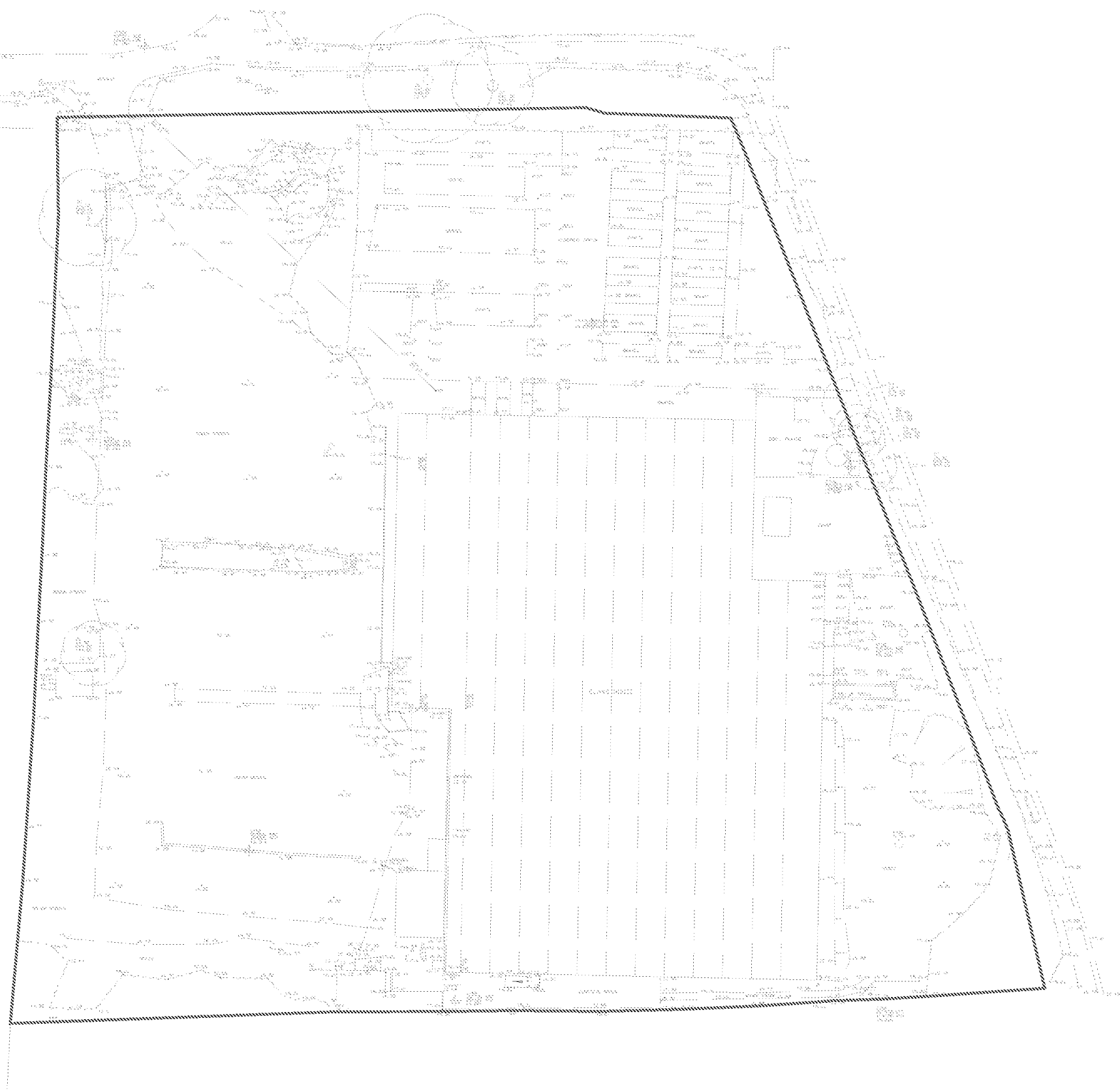
Appendix 1
Site Location Plan
Existing and Proposed Site Layouts



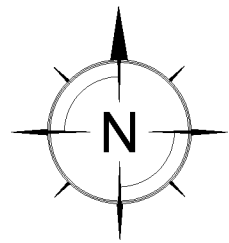
TITLE	
Manor Nursery, Angmering Site Location Plan	
SCALE	DWG. No.
1:10000 @ A3	1



-10m 0 10m 20m 30m 40m
Scale 1:1000



TITLE		Existing Site Plan
SCALE	NTS @ A3	DRG. No. 2



-10m 0 10m 20m 30m 40m
Scale 1:1000



TITLE		Proposed Site Plan
SCALE	NTS @ A3	DRG. No. 3

Appendix 2

British Geological Society Borehole logs



British
Geological Survey

NATURAL ENVIRONMENT RESEARCH COUNCIL

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Surface
Geology

3D
Geology

Borehole
Scans

Earthquake
Time-line

Borehole Scans

Click on a borehole to view
scan.

Borehole depth

- 0 - 10m
- 10 - 30m
- 30m+
- Unknown
- Confidential
or Restricted

[More on boreholes](#)

Go to
Location

Switch
Basemap

100% 0%

Geology Transparency

Grid Ref: 507309, 104107

BN164AW

0 0.5 1.0 km

RECORD OF WELL (SHAFT OR BORE)

For Survey use only
N. 11271

317/401

EXACT SITE
OF WELL

At Roundstone Lane

TP 073 036

Town or Village East Twicken

Licence No. 4/22/34

County Surrey

Six-inch quarter sheet LX1115E/D. 6356/w.

For Tree Specialists Ltd

State whether owner, tenant, builder, contractor, consultant, etc.:— Owner

Address (if different from above)

Level of ground surface above sea-level (O.D.) +28 1/2 ft.

If well-top is not at ground level, state how far { above: below; } ft.

SHAFT ft.; diameter ft.; Full details of headings (dimensions and directions)

BORE 20 ft.; diameter of bore: at top 6 ins.; at bottom 6 ins.

Full details of permanent lining tubes (position, length, diameter, plain, slotted etc.)

Plain 8" surface - 41'; Plain 8" - surface to 45'; slotted 45' - 56'.

Annulus cement grouted

Water struck at depths of 20' at top ft. below well-top.

TEST
CONDITIONS

Rest level of water 17 ft. above below well-top. Suction at 33 ft. Yield on 8 hours' test pumping at 700 galls. per hour with depression to 21' 6" ft. below well-top.

Recovery to rest-level in mins. Capacity of pump 1600 g.p.h. Date of measurements March hours

NORMAL
CONDITIONS

DESCRIPTION OF PERMANENT PUMPING EQUIPMENT:

Make and/or type Summa 7C.L.S. Motive power under

Capacity 2400 gallons per hour. Suction at 33 ft.

Amount pumped galls. per day. Estimated consumption galls. per week.

Well made by Duke Debenham Ltd Date of well March 1965

Information from Letchampton

ADDITIONAL NOTES

ANALYSIS (please attach copy if available)

Done by O on 6" Summa 6356/w. 1. 9. 68

LOG OF STRATA OVERLEAF.

Geological Survey and Museum, South Kensington, London, S.W.7.	Section 6.	Date Received	1" O.S. Map No.	Site marked on 1" Map	(use symbol) on 6" Map
		<u>28.6.65.</u>		<u>0</u>	<u>0</u>

(For Survey use only)
GEOLOGICAL
CLASSIFICATION

NATURE OF STRATA

If measurements start below
ground surface, state how far ...

THICKNESS

Feet Inches
.. ..

DEPTH

Feet Inches
.. ..

Drift (Valley
gravel)
23'

Brown clay } Birkworth
Brown clay and flint } Brighton Rammed Beach
Green sand & ballast

5
13 3.9
23 7.0

? Upper chalk
57'
Middle chalk

Yellow rock chalk
White rock chalk
Hard yellow chalk
Soft yellow chalk
White chalk

30
33
36
38
80 24.1

M. H.
1/2/73

R. J. Wyke
8.11.82

TQ00 SE [redacted]
071 043
ANGMERING

31/201

Angmering Garage. Old well. Cleared out Dec. 1903 by Duke & Ockenden.
Depth 156 1/2 ft., with 8 1/2 ft. of water. Pressure 18 inches from
the bottom yielding about 1000 gallons per hour. in RWL 148'65.

6" Correx 63 SE/W.

Exact site not determined, but probably on south side of High Street
about half way between Roundstone Lane and Station Road. OD 46



Estimated classification



156 1/2

RMH
5/2/73

DATA Bank

W. S. 52. 11E p. 154

317
201

TP 072 043

ANGMERING

TP 00/106

Angmering Cottage. Old well. Cleaned out Dec. 1903 by Juke & Deland. Depth $156\frac{1}{2}$ ft., with $8\frac{1}{2}$ ft. of water. Fissure 18 inches from the bottom yielding about 1000 gallons per hour. i.RWL 148'65.

6" Durax 63 SE/W.

Exact site not determined, but probably on south side of High Street about half way between Roundstone Lane and Station Road. OD 46

Estimated classification156 $\frac{1}{2}$ MH
5/2/73DATA Bank

W.S. 5A. 11E p. 154



British
Geological Survey
NATURAL SCIENCE RESEARCH COUNCIL

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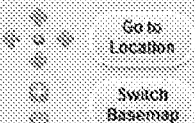
Surface Geology

- ☐ Superficial only
- ☐ Bedrock only
- ☐ Bedrock and Superficial

Visible geology:
1:50 000 scale

Geology
Key

More on digital geology



100% 0%
Geology Transparency

Grid Ref: 50471Z, 104683

Map Key (close this window to activate map)

Bedrock geology

- ☐ LONDON CLAY FORMATION - SAND
- ☐ LONDON CLAY FORMATION - CLAY, SILT AND SAND
- ☐ LAMBETH GROUP - CLAY, SILT AND SAND
- ☐ SPETISBURY CHALK MEMBER - CHALK
- ☐ TARRANT CHALK MEMBER - CHALK
- ☐ NEWHAVEN CHALK FORMATION - CHALK
- ☐ SEAFORD CHALK FORMATION - CHALK
- ☐ LEWES NODULAR CHALK FORMATION - CHALK
- ☐ LEWES NODULAR CHALK FORMATION, SEAFORD CHALK FORMATION, NEWHAVEN CHALK FORMATION AND PORTSDOWN CHALK FORMATION (UNDIFFERENTIATED) - CHALK
- ☐ NEW PIT CHALK FORMATION - CHALK

Bedrock geology

1:50 000 scale bedrock geology description:

Lewes Nodular Chalk Formation, Seaford Chalk Formation, Newhaven Chalk Formation, Culver Chalk Formation And Portsdown Chalk Formation (undifferentiated) - Chalk. Sedimentary bedrock formed approximately 72 to 94 million years ago in the Cretaceous Period. Local environment previously dominated by warm chalk seas.

Setting: warm chalk seas. These sedimentary rocks are shallow-marine in origin. They are biogenic and detrital, generally comprising carbonate material (coccoliths), forming distinctive beds of chalk.

[Further details](#) [What is Bedrock Geology?](#)

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0 0.2 0.4 0.6 0.8 1.0 1.2 1.4 1.6 1.8 2.0 2.2 2.4 2.6 2.8 3.0 3.2 3.4 3.6 3.8 4.0 4.2 4.4 4.6 4.8 5.0 5.2 5.4 5.6 5.8 6.0 6.2 6.4 6.6 6.8 7.0 7.2 7.4 7.6 7.8 8.0 8.2 8.4 8.6 8.8 9.0 9.2 9.4 9.6 9.8 10.0 10.2 10.4 10.6 10.8 11.0 11.2 11.4 11.6 11.8 12.0 12.2 12.4 12.6 12.8 13.0 13.2 13.4 13.6 13.8 14.0 14.2 14.4 14.6 14.8 15.0 15.2 15.4 15.6 15.8 16.0 16.2 16.4 16.6 16.8 17.0 17.2 17.4 17.6 17.8 18.0 18.2 18.4 18.6 18.8 19.0 19.2 19.4 19.6 19.8 20.0 20.2 20.4 20.6 20.8 21.0 21.2 21.4 21.6 21.8 22.0 22.2 22.4 22.6 22.8 23.0 23.2 23.4 23.6 23.8 24.0 24.2 24.4 24.6 24.8 25.0 25.2 25.4 25.6 25.8 26.0 26.2 26.4 26.6 26.8 27.0 27.2 27.4 27.6 27.8 28.0 28.2 28.4 28.6 28.8 29.0 29.2 29.4 29.6 29.8 30.0 30.2 30.4 30.6 30.8 31.0 31.2 31.4 31.6 31.8 32.0 32.2 32.4 32.6 32.8 33.0 33.2 33.4 33.6 33.8 34.0 34.2 34.4 34.6 34.8 35.0 35.2 35.4 35.6 35.8 36.0 36.2 36.4 36.6 36.8 37.0 37.2 37.4 37.6 37.8 38.0 38.2 38.4 38.6 38.8 39.0 39.2 39.4 39.6 39.8 40.0 40.2 40.4 40.6 40.8 41.0 41.2 41.4 41.6 41.8 42.0 42.2 42.4 42.6 42.8 43.0 43.2 43.4 43.6 43.8 44.0 44.2 44.4 44.6 44.8 45.0 45.2 45.4 45.6 45.8 46.0 46.2 46.4 46.6 46.8 47.0 47.2 47.4 47.6 47.8 48.0 48.2 48.4 48.6 48.8 49.0 49.2 49.4 49.6 49.8 50.0 50.2 50.4 50.6 50.8 51.0 51.2 51.4 51.6 51.8 52.0 52.2 52.4 52.6 52.8 53.0 53.2 53.4 53.6 53.8 54.0 54.2 54.4 54.6 54.8 55.0 55.2 55.4 55.6 55.8 56.0 56.2 56.4 56.6 56.8 57.0 57.2 57.4 57.6 57.8 58.0 58.2 58.4 58.6 58.8 59.0 59.2 59.4 59.6 59.8 60.0 60.2 60.4 60.6 60.8 61.0 61.2 61.4 61.6 61.8 62.0 62.2 62.4 62.6 62.8 63.0 63.2 63.4 63.6 63.8 64.0 64.2 64.4 64.6 64.8 65.0 65.2 65.4 65.6 65.8 66.0 66.2 66.4 66.6 66.8 67.0 67.2 67.4 67.6 67.8 68.0 68.2 68.4 68.6 68.8 69.0 69.2 69.4 69.6 69.8 70.0 70.2 70.4 70.6 70.8 71.0 71.2 71.4 71.6 71.8 72.0 72.2 72.4 72.6 72.8 73.0 73.2 73.4 73.6 73.8 74.0 74.2 74.4 74.6 74.8 75.0 75.2 75.4 75.6 75.8 76.0 76.2 76.4 76.6 76.8 77.0 77.2 77.4 77.6 77.8 78.0 78.2 78.4 78.6 78.8 79.0 79.2 79.4 79.6 79.8 80.0 80.2 80.4 80.6 80.8 81.0 81.2 81.4 81.6 81.8 82.0 82.2 82.4 82.6 82.8 83.0 83.2 83.4 83.6 83.8 84.0 84.2 84.4 84.6 84.8 85.0 85.2 85.4 85.6 85.8 86.0 86.2 86.4 86.6 86.8 87.0 87.2 87.4 87.6 87.8 88.0 88.2 88.4 88.6 88.8 89.0 89.2 89.4 89.6 89.8 90.0 90.2 90.4 90.6 90.8 91.0 91.2 91.4 91.6 91.8 92.0 92.2 92.4 92.6 92.8 93.0 93.2 93.4 93.6 93.8 94.0 94.2 94.4 94.6 94.8 95.0 95.2 95.4 95.6 95.8 96.0 96.2 96.4 96.6 96.8 97.0 97.2 97.4 97.6 97.8 98.0 98.2 98.4 98.6 98.8 99.0 99.2 99.4 99.6 99.8 100.0 100.2 100.4 100.6 100.8 101.0 101.2 101.4 101.6 101.8 102.0 102.2 102.4 102.6 102.8 103.0 103.2 103.4 103.6 103.8 104.0 104.2 104.4 104.6 104.8 105.0 105.2 105.4 105.6 105.8 106.0 106.2 106.4 106.6 106.8 107.0 107.2 107.4 107.6 107.8 108.0 108.2 108.4 108.6 108.8 109.0 109.2 109.4 109.6 109.8 110.0 110.2 110.4 110.6 110.8 111.0 111.2 111.4 111.6 111.8 112.0 112.2 112.4 112.6 112.8 113.0 113.2 113.4 113.6 113.8 114.0 114.2 114.4 114.6 114.8 115.0 115.2 115.4 115.6 115.8 116.0 116.2 116.4 116.6 116.8 117.0 117.2 117.4 117.6 117.8 118.0 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Surface Geology

- ☐ Superficial only
- ☐ Bedrock only
- ☐ Bedrock and Superficial

Visible geology:
1:50 000 scale

Geology
Key

More on digital geology

Go to
Location

Switch
Basemap

100% 0%

Geology Transparency

Grid Ref: 504724, 105272

BN164AW

Superficial geology

1:50 000 scale superficial deposits description:
River Terrace Deposits (undifferentiated) - Sand, Silt And Clay. Superficial Deposits formed up to 3 million years ago in the Quaternary Period. Local environment previously dominated by rivers (U).

Setting: rivers (U). These sedimentary deposits are fluvial in origin. They are detrital, ranging from coarse- to fine-grained and form beds and lenses of deposits reflecting the channels, floodplains and levees of a river or estuary (if in a coastal setting).

Further details [What are Superficial Deposits?](#)

To purchase detailed non-boreal reports for this area, try our [GeoReports](#) service

Map Key (close this window to activate map)

1:50 000 scale geology

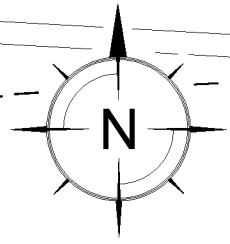
Superficial deposits

- ☐ ALLUVIUM - CLAY, SILT, SAND AND PEAT
- ☐ ALLUVIUM - CLAY, SILT, SAND AND GRAVEL
- ☐ BEACH AND TIDAL FLAT DEPOSITS
- ☐ (UNDIFFERENTIATED) - CLAY, SILT, SAND AND GRAVEL
- ☐ HEAD - CLAY, SILT, SAND AND GRAVEL
- ☐ HEAD - 1 - CLAY, SILT, SAND AND GRAVEL
- ☐ RAISED BEACH DEPOSITS - 1 - SAND AND GRAVEL
- ☐ RAISED MARINE DEPOSITS - CLAY, SILT, SAND AND GRAVEL
- ☐ RIVER TERRACE DEPOSITS (UNDIFFERENTIATED) - SAND, SILT AND CLAY
- ☐ STORM BEACH DEPOSITS - GRAVEL

0 0.5 1.0km

Appendix 3

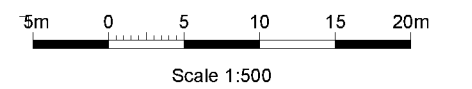
Proposed Site Catchments Area Plan



KEY

-  ROAD AREA (TOTAL=1664m²)
-  ROOF AREA (TOTAL=2430m²)
-  DRIVEWAY AREA (TOTAL=733m²)
-  FOOTPATH AREA (TOTAL=182m²)
-  GARAGE AREA (TOTAL=528m²)
-  PARKING AREA(TOTAL=189m²)

TOTAL IMPERMEABLE AREA = 5800m²



TITLE		Proposed Site Catchment Area Plan	
SCALE	1:500 @ A3	DRG. No.	4

Appendix 4

Surface Water Drainage Calculations

PRIVATE SOAKAWAY 1

Design of Aquacell Trench Soakaways including 10% Urban Creep

Project Name: Manor Nursery, Angmering
Project Number: 22995

Soakaway No

Cover Level 16.300 m AOD
Invert of pipe 15.300 m AOD
Pipe Invert Depth 1.000 m
Depth to top of Soakaway 0.500 m
Depth to Permeable Strata 1.500 m
Soakaway Width 2.000 m (Crate Size 1m x 0.5m)
Depth to Base 2.100 m 4 crates
Impermeable Area 1,300 m²
Void Ratio 95 %

Allow Drainage Through Base? Yes (Default No)

Storm Profiles

Return Period 100 years (10years-BRE 365)
M5-60 20 mm
Ratio r1 0.35

Consider Storms Beyond 6 hour duration? Yes

Soil Characteristics

Soil Infiltration Rate 200.00 x10⁻⁶m/s
Soil Description Gravel

Calculations based on BRE Digest 365 - September 1991.

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)

Crate Depth 400 mm each

Soakaway Results

Width 2.000 m
Excavation Depth 2.100 m
Storage Depth 1.600 m
Effective Outflow Depth 0.600 m
Length of Soakaway 14.87 m
ts50 0.79 hrs

Design OK

SOAKAWAY 2

Design of Aquacell Trench Soakaways

Project Name: Manor Nursery, Angmering
Project Number: 22995

Soakaway No

Cover Level 16.300 m AOD
Invert of pipe 15.300 m AOD
Pipe Invert Depth 1.000 m
Depth to top of Soakaway 1.100 m
Depth to Permeable Strata 1.500 m
Soakaway Width 3.000 m (Crate Size 1m x 0.5m)
Depth to Base 2.700 m 4 crates
Impermeable Area 1,700 m²
Void Ratio 95 %

Allow Drainage Through Base? No (Default No)

Storm Profiles

Return Period 100 years (10years-BRE 365)
M5-60 20 mm
Ratio r1 0.35

Consider Storms Beyond 6 hour duration? Yes

Soil Characteristics

Soil Infiltration Rate 200.00 x10⁻⁶m/s
Soil Description Gravel

Calculations based on BRE Digest 365 - September 1991.

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)

Crate Depth 400 mm each

Soakaway Results

Width 3.000 m
Excavation Depth 2.700 m
Storage Depth 1.600 m
Effective Outflow Depth 1.200 m
Length of Soakaway 17.89 m
ts50 2.26 hrs

Design OK

SOAKAWAY 3

Design of Aquacell Trench Soakaways

Project Name: Manor Nursery, Angmering
Project Number: 22995

Soakaway No

Cover Level 16.300 m AOD
Invert of pipe 15.300 m AOD
Pipe Invert Depth 1.000 m
Depth to top of Soakaway 0.500 m
Depth to Permeable Strata 1.500 m
Soakaway Width 1.500 m (Crate Size 1m x 0.5m)
Depth to Base 2.100 m 4 crates
Impermeable Area 400 m²
Void Ratio 95 %

Allow Drainage Through Base? (Default No)

Storm Profiles

Return Period 100 years (10years-BRE 365)
M5-60 20 mm
Ratio r1 0.35

Consider Storms Beyond 6 hour duration?

Soil Characteristics

Soil Infiltration Rate 200.00 x10⁻⁶m/s
Soil Description Gravel

Calculations based on BRE Digest 365 - September 1991.

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)

Crate Depth 400 mm each

Soakaway Results

Width 1.500 m
Excavation Depth 2.100 m
Storage Depth 1.600 m
Effective Outflow Depth 0.600 m
Length of Soakaway 8.39 m
ts50 2.24 hrs

Design OK

SOAKAWAY 4

Design of Aquacell Trench Soakaways

Project Name: Manor Nursery, Angmering
Project Number: 22995

Soakaway No

Cover Level 16.300 m AOD
Invert of pipe 15.300 m AOD
Pipe Invert Depth 1.000 m
Depth to top of Soakaway 0.500 m
Depth to Permeable Strata 1.500 m
Soakaway Width 2.000 m (Crate Size 1m x 0.5m)
Depth to Base 2.100 m 4 crates
Impermeable Area 850 m²
Void Ratio 95 %

Allow Drainage Through Base? (Default No)

Storm Profiles

Return Period 100 years (10years-BRE 365)
M5-60 20 mm
Ratio r1 0.35

Consider Storms Beyond 6 hour duration?

Soil Characteristics

Soil Infiltration Rate 200.00 x10⁻⁶m/s
Soil Description Gravel

Calculations based on BRE Digest 365 - September 1991.

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)

Crate Depth 400 mm each

Soakaway Results

Width 2.000 m
Excavation Depth 2.100 m
Storage Depth 1.600 m
Effective Outflow Depth 0.600 m
Length of Soakaway 14.63 m
ts50 3.10 hrs

Design OK

PRIVATE SOAKAWAY 5

Design of Aquacell Trench Soakaways including 10% Urban Creep

Project Name: Manor Nursery, Angmering
Project Number: 22995

Soakaway No

Cover Level 16.300 m AOD
Invert of pipe 15.300 m AOD
Pipe Invert Depth 1.000 m
Depth to top of Soakaway 0.500 m
Depth to Permeable Strata 1.500 m
Soakaway Width 2.000 m (Crate Size 1m x 0.5m)
Depth to Base 2.100 m 4 crates
Impermeable Area 500 m²
Void Ratio 95 %

Allow Drainage Through Base? (Default No)

Storm Profiles

Return Period 100 years (10years-BRE 365)
M5-60 20 mm
Ratio r1 0.35

Consider Storms Beyond 6 hour duration?

Soil Characteristics

Soil Infiltration Rate 200.00 x10⁻⁶m/s
Soil Description Gravel

Calculations based on BRE Digest 365 - September 1991.

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)

Crate Depth 400 mm each

Soakaway Results

Width 2.000 m
Excavation Depth 2.100 m
Storage Depth 1.600 m
Effective Outflow Depth 0.600 m
Length of Soakaway 8.42 m
ts50 2.84 hrs

Design OK

Design of Perforated Concrete Ring Soakaways including 10% for Urban Creep

Project Name: Manor Nursery, Angmering - Private House Soakaways
Project Number: 22995

Soakaway No RSA1-7
Cover Level 18.000 m AOD
Pipe Invert Level 18.000 m (lowest pipe)
Depth to Invert 1.000
Depth from Cover to first perforated ring 1.300 m

Calculations based on BRE Digest 365 - September 1991
 Effective cross section for soakaway taken as internal diameter
 Return Storm Period Assessments available are:
 1, 2, 5, 10, 20, 25, 50, 100 years.
 Ratio r_1 in the range 0.12, 0.15, 0.18, 0.21, 0.24, 0.27, 0.30-0.45
 40% increase due to Climate Change (1:100 year storms)

Impermeable area 120 m²
Gravel Surround Void Ratio 30 % (normally 30%)
Gravel Surround 150 mm
Allow Drainage Through Base? ☐ No ☒ Default No

Storm Profiles
Return Period 100 years (10years-BRE 365)
M5-60 30 mm
Ratio r_1 0.35
Consider Storms Beyond 6 hour duration? ☐ Yes ☒

Soil Characteristics
Soil Infiltration Rate 200.00 x10⁻⁶ m/s
Soil Description Gravel

Ring Size (m)	Approx Ring Wall Thickness (mm)	Excavation Size (m)	Required Storage Depth (m)	Unsurcharged Storage Provided (m ³)	Total Depth of Soakaway for Design Return Period (m)	100 yr +CC Additional Storage Required (m ³)	Storage Above Soakaway Effective Depth (m ³)	Additional Depth Required (m)	Total Soakaway Depth (m)	t_{50} (hrs) (max 24)	Design OK?
0.900	70	1.340	2.021	1.927	3.321	0.771	0.827	0.000	3.321	0.25	YES
1.050	80	1.510	1.619	2.022	2.919	0.809	1.126	0.000	2.919	0.29	YES
1.200	90	1.680	1.350	2.140	2.650	0.856	1.470	0.000	2.650	0.33	YES
1.350	95	1.840	1.150	2.249	2.450	0.900	1.861	0.000	2.450	0.37	YES
1.500	105	2.010	0.988	2.343	2.288	0.937	2.297	0.000	2.288	0.41	YES
1.800	115	2.330	0.757	2.504	2.057	1.002	3.308	0.000	2.057	0.49	YES
2.100	125	2.650	0.598	2.633	1.898	1.053	4.503	0.000	1.898	0.58	YES
2.400	140	2.980	0.489	2.773	1.789	1.109	5.881	0.000	1.789	0.66	YES
2.700	150	3.300	0.412	2.915	1.712	1.166	7.443	0.000	1.712	0.74	YES
3.000	165	3.630	0.351	3.038	1.651	1.215	9.189	0.000	1.651	0.83	YES

Design of Perforated Concrete Ring Soakaways including 10% for Urban Creep

Project Name: Manor Nursery, Angmering
Project Number: 22995

Soakaway No RSA 8-11
Cover Level 18.000 m AOD
Pipe Invert Level 18.000 m (lowest pipe)
Depth to Invert 1.000
Depth from Cover to first perforated ring 1.300 m

Calculations based on BRE Digest 365 - September 1991
 Effective cross section for soakaway taken as internal diameter
 Return Storm Period Assessments available are:
 1, 2, 5, 10, 20, 25, 50, 100 years.
 Ratio r_1 in the range 0.12, 0.15, 0.18, 0.21, 0.24, 0.27, 0.30-0.45
 40% increase due to Climate Change (1:100 year storms)

Impermeable area 188 m²
Gravel Surround Void Ratio 30 % (normally 30%)
Gravel Surround 150 mm
Allow Drainage Through Base? ☐ No ☒ Default No

Storm Profiles
Return Period 100 years (10years-BRE 365)
M5-60 30 mm
Ratio r_1 0.35
Consider Storms Beyond 6 hour duration? ☐ Yes ☒

Soil Characteristics
Soil Infiltration Rate 200.00 x10⁻⁶ m/s
Soil Description Gravel

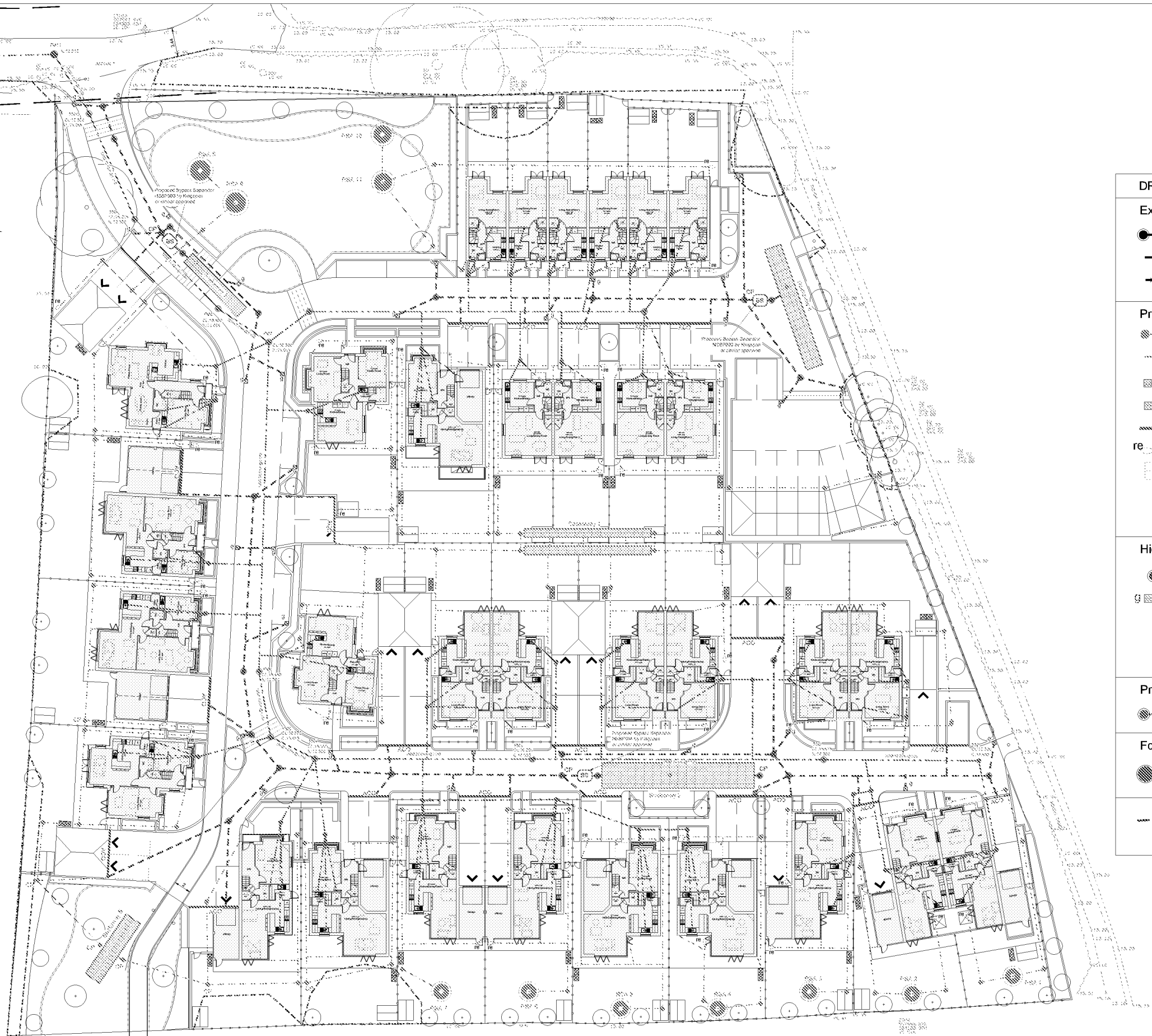
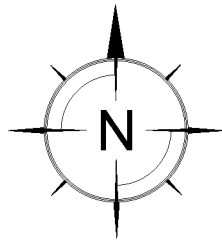
Ring Size (m)	Approx Ring Wall Thickness (mm)	Excavation Size (m)	Required Storage Depth (m)	Unsurcharged Storage Provided (m ³)	Total Depth of Soakaway for Design Return Period (m)	100 yr +CC Additional Storage Required (m ³)	Storage Above Soakaway Effective Depth (m ³)	Additional Depth Required (m)	Total Soakaway Depth (m)	t_{450} (hrs) (max 24)	Design OK?
0.900	70	1.340	2.779	2.649	4.079	1.060	0.827	0.366	4.445	0.25	YES
1.050	80	1.510	2.226	2.780	3.526	1.112	1.126	0.000	3.526	0.29	YES
1.200	90	1.680	1.856	2.943	3.156	1.177	1.470	0.000	3.156	0.33	YES
1.350	95	1.840	1.582	3.092	2.882	1.237	1.861	0.000	2.882	0.37	YES
1.500	105	2.010	1.358	3.222	2.658	1.289	2.297	0.000	2.658	0.41	YES
1.800	115	2.330	1.040	3.443	2.340	1.377	3.308	0.000	2.340	0.49	YES
2.100	125	2.650	0.822	3.620	2.122	1.448	4.503	0.000	2.122	0.58	YES
2.400	140	2.980	0.673	3.813	1.973	1.525	5.881	0.000	1.973	0.66	YES
2.700	150	3.300	0.566	4.008	1.866	1.603	7.443	0.000	1.866	0.74	YES
3.000	165	3.630	0.482	4.178	1.782	1.671	9.189	0.000	1.782	0.83	YES

Appendix 5

Southern Water Infrastructure Record

Appendix 6

Proposed Surface and Foul Water Drainage Layout



DRAINAGE KEY:	
Existing Adopted Sewers	
	Existing Foul
	Existing Storm
	Existing drainage to be removed
Private Storm Drainage	
	Inspection Chambers
	Catchpit Manhole
	Road Gully
	Yard Gully
	ACO Channel
	Rodding Eye
	Storage Crate/Cellular Soakaway
	Precast Concrete Soakaway
Highway Drainage	
	Concrete Manhole
	Road Gully
	Proposed Bypass Separator
	Proposed Catchpit Manhole
Private Foul Drainage	
	Inspection Chambers
Foul Sewers For Adoption	
	Type 1 / Type 2 Precast Concrete Manhole
	Tree Protection Zone reproduced based on Lizard Landscape Design and Ecology drawing number LLD1275-ARB-DWG-002