N

SOAKAWAY SA4
COMPLEX STRUCTURE
IL 8.200 mAOD (APPROX. 2 m BELOW EXISTING GROUND LEVEL)
0.8 m x 29 m x 1.70 m DEEP GRANULAR TRENCH SOAKAWAY - 30% VOIDS
1.0 m x 29 m x 0.40 m DEEP GEOCELLULAR BLANKET (STORAGE FUNCTION) - 95% VOIDS
CONTRIBUTING AREA - 214.5 m²
(INCLUDING 10% CREEP)
DESIGN TO BRE365 - FACTOR OF SAFETY : 1
SOIL INFILTRATION RATE : 1.26* 10-6 m/s
(TAKEN FROM WORST TEST IN: SA4)

EXTENT OF GEOCELLULAR BLANKET STORAGE

SOAKAWAY SA1
GRANULAR INFILTRATION BLANKET - 30% VOIDS
IL 7.07 mAOD
846.5 m² x 2.05 m DEEP
CONTRIBUTING AREA - 0.824 ha (INCLUDING 10% CREEP)
DESIGN TO CIRIA R156 - FACTOR OF SAFETY : 1.5
SOIL INFILTRATION RATE : 8.13 * 10-6 m/s
(TAKEN FROM WORST 2025 BRE365 TESTS IN: TP03)

APPROXIMATELY 30 m³ OF FOUL WATER EMERGENCY STORAGE. ARRANGEMENT INDICATIVELY ONLY AND ALL DETAILS TBC BY THE PUMP SUPPLIER

PRIVATE FW PACKAGED PUMP STATION WITH CONNECTION INTO THE PUBLIC SEWERAGE NETWORK - STATION DETAILS TBC BY THE PUMP SUPPLIER

OVERHEAD POWER CABLE AT THE SOUTHERN BOUNDARY LINE

INDICATIVE LOCATION OF TRANSMISSION TOWER

FOR CONTINUATION REFER TO DRAWING 21-254-701

OVERHEAD POWER CABLE AT THE SOUTHERN BOUNDARY LINE

The Firs

Bonaventure

KEY TO HEALTH AND SAFETY SYMBOLS

ABNORMAL OR UNUSUAL RESIDUAL RISKS ASSOCIATED WITH THE DESIGN OUTCOMES SHOWN ON THIS DRAWING MAYBE INDICATED BY MEANS OF THE FOLLOWING SYMBOLS.

- INDICATES A RESIDUAL RISK REQUIRING A COMPULSORY ACTION.
- INDICATES A RESIDUAL RISK FOR INFORMATION.
- INDICATES A RESIDUAL RISK REQUIRING A PROHIBITIVE ACTION.
- INDICATES A RESIDUAL RISK AS A WARNING.

DRAINAGE KEY

- FWMH - EXISTING FOUL WATER MANHOLE
- FWMH - PRIVATE FOUL WATER MANHOLE (PCC RINGS) - MIN 1.2m DIA
- FW-IC3 - PRIVATE FOUL WATER INSPECTION CHAMBER - MIN 0.45m DIA
- FW-IC4 - PRIVATE FOUL WATER INSPECTION CHAMBER - MIN 0.25m DIA
- SWMH - PRIVATE SURFACE WATER MANHOLE (PCC RINGS)
- SW-IC3 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.6m DIA
- SW-IC3 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.75m x 0.60m
- SW-IC3 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.45m DIA
- SW-IC4 - PRIVATE SURFACE WATER INSPECTION CHAMBER - MIN 0.25m DIA
- PRIVATE FOUL WATER PUMP STATION - ALL DETAILS SUBJECT TO A SPECIALIST DESIGN
- RODDING EYE
- EXISTING PRIVATE FOUL WATER SEWER
- PRIVATE FW RISING MAIN
- 100Ø 1/12 PRIVATE FOUL WATER DRAINAGE
- 225Ø 1/199 PRIVATE SURFACE WATER DRAINAGE
- DRAINAGE CHANNEL (I.E ACO M100D 0.0 OR SIMILAR APPROVED)
- PERFORATED DISTRIBUTOR PIPE (CONNECTION LINK)
- PERMEABLE PAVING INFILTRATION TRENCH
- PERMEABLE PAVING INFILTRATION TRENCH - GEOMEMBRANE WRAPPED
- PERMEABLE PAVING INTER-CONNECTION
- OVERFLOW ARRANGEMENT (GULLY)
- ST SW CHAMBER WITH MINIMUM 300mm DEEP SILT TRAP
- MA DEDICATED ACCESS FOR MAINTENANCE PURPOSES (I.E. CCTV, JETTING)
- INFILTRATION FEATURE
- PERMEABLE PAVING - REFER TO DRAWING 21-254-311, 312 FOR DETAILS
- FFL 7.250 PROPOSED FINISHED FLOOR LEVEL
- 10.682+ PROPOSED FINISHED SURFACE LEVEL
- INSPECTION MANHOLE
- SWMH - EXISTING PUBLIC SURFACE WATER MANHOLE
- EXISTING PUBLIC SURFACE WATER SEWER
- PERMAVOID DIFFUSER UNIT (SPECIFIED BY THE MANUFACTURER)
- BACKDROP

NOTES

1. CDM REGULATIONS 2015
(i) IN COMPLIANCE WITH CDM 2015 ODYSSEY HAS FOLLOWED IT'S DESIGN RISK MANAGEMENT PROCESS FOR HAZARD ELIMINATION AND RISK REDUCTION IN DEVELOPING THE ODYSSEY DESIGNS SHOWN ON THIS DRAWING.
(ii) THERE IS AN OVERHEAD POWER CABLE AT THE SITE'S SOUTHERN BOUNDARY. ANY OTHER RESIDUAL RISKS ARE THOSE THAT WOULD NORMALLY BE EXPECTED BY COMPETENT PERSONS OR CONTRACTORS WITH NECESSARY SKILLS KNOWLEDGE AND EXPERIENCE TO BE ENGAGED ON WORK OF THIS NATURE OR TYPE.
2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELATED DRAWINGS ISSUED BY THE ARCHITECT AND ENGINEER.
3. SURFACE AND FOUL WATER DRAINAGE SYSTEMS ON THIS SITE ARE ALREADY INSTALLED. THE NEW DESIGN IS BASED ON THE ORIGINAL SCHEME BEING IMPLEMENTED (AS SHOWN ON THE DESIGN DRAWINGS 21-254-301E AND 21-254-302F).
4. THIS DRAWING SHOWS BOTH THE DESIGN ELEMENTS OF THE SURFACE AND FOUL WATER DRAINAGE SYSTEMS AS PER ORIGINAL DESIGN DRAWINGS (21-254-301E AND 21-254-302F) WITH THE ELEMENTS OF THE INSTALLED SYSTEM THAT ARE PROPOSED TO BE ALTERED OR ADDED - WITH THE LATTER SPECIFICALLY HIGHLIGHTED ON DRAWING 21-254-703.
5. REFER TO DRAWING 21-254-700 FOR DETAILS OF FEATURES AGAINST BRE365 INFILTRATION TESTS.
6. FOR MANHOLE SCHEDULES REFER TO DRAWINGS 21-254-304 AND 21-254-305.

Rev	Amendments	Drn	Chk	App	Date
D	SA1 CONTRIBUTING AREA UPDATED	AK	BO	BAC	30.03.26
C	SA1 UPDATED FOLLOWING GROUNDWATER MONITORING	AK	BO	BAC	05.03.26
B	SA1 SHAPE UPDATED	AK	BO	BAC	03.11.25
A	SA1 HEIGHT AMENDED, S21 CHAMBER UPDATED TO SERVE AS AN OVERFLOW POINT	AK	BO	BAC	09.10.25

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Job Title
FORMER SHRUBLANDS NURSERY
ROUNDSTONE LANE, ANGMERING

Drawing Title
DRAINAGE (SHEET 2)

Client
SIGMA HOMES

Scale	Date	Designed
1:200 @A1	JUL 2025	AK
Drawn	Checked	Approved
AK	BO	BAC
Job No	Drawing No	Rev
21-254	21-254-702	D

P:\21-254 - Roundstone Lane, Angmering - Detailed Design\Tech\Acad\Drawings\21-254-701_702 Drainage.dwg