PROPOSED CONNECTION INTO EXISTING FOUL CHAMBER. EXISTING CHAMBER TO BE RECONSTRUCTED.

38.100m EXTENT OF EXISTING 100mmø PIPE TO BE REPLACED WITH 150mmø

FOR CONTINUATION REFER TO C-SK05

PROPOSED HYDRO-BRAKE DESIGN FLOW: 5L/s

MAINTENANCE PATH LEVEL: 187.00

BASE LEVEL: 186.10

OUTLET IL: 186.10

RAINGARDEN FOREBAY WITHIN BASIN TO RECEIVE STORM INLET

IL: 186.36

IL: 185.97

IL: 185.92

IL: 186.53

IL: 186.05

IL: 186.82

0.00

20.0

26.08

20.09

23.07

40.0

56.26

60.0

74.0

80.0

92.36

100.0

103.59

20.0

40.0

60.0

65.91

68.61

71.31

78.01

17.83

0.00

FFL: 188.20

FFL: 188.40

FFL: 188.40

FFL: 188.40

FFL: 188.40

FFL: 189.15

FFL: 189.15

FFL: 189.20

FFL: 189.20

FFL: 189.20

FFL: 189.20

FFL: 189.35

FFL: 189.80

FFL: 190.20

FFL: 190.20

FFL: 190.45

FFL: 190.45

FFL: 189.60

FFL: 189.60

FFL: 189.85

FFL: 189.85

FFL: 190.30

FFL: 190.30

FFL: 190.50

FFL: 190.35

FFL: 190.35

FFL: 190.65

LOCATION OF EXISTING WATER MAIN WHICH RUNS THROUGH SITE

PROPOSED ORIFICE ORIFICE DIAMETER 39mm

PROPOSED ORIFICE ORIFICE DIAMETER 30mm

POROUS SURFACE USED FOR UPSTREAM STORAGE SUBBASE DEPTH 700mm

POROUS SURFACE USED FOR UPSTREAM STORAGE SUBBASE DEPTH 400mm

POROUS SURFACE SUBBASE DEPTH 350mm

WATER

B4314

ASH LANE

Llwyn Onn

Pendre

Bungalow

Shed

Car Port

GENERAL NOTES

1. DO NOT SCALE THIS DRAWING.
2. CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER.
3. ANY DISCREPANCY TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
4. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.

KEY

- DCWW ADOPTABLE FOUL DRAINAGE SYSTEM
- LA ADOPTABLE STORM DRAINAGE
- LA ADOPTABLE PERFORATED STORM DRAINAGE
- STORM DRAINAGE SERVING PRIVATE PROPERTIES
- PERFORATE PIPEWORK SERVING PRIVATE PROPERTIES
- ACO LINEAR CHANNEL
- OG PRIVATE RAINGARDEN OVERFLOW GULLY
- RE ON PLOT RODDING EYE MAINTAINED BY RESIDENT 100mmø UNLESS STATED
- PRIVATE POROUS ASPHALT PARKING BAY WITH PERFORATED PIPE UNDERDRAIN.
- SHARED POROUS BLOCKWORK SURFACE
- LA ADOPTABLE POROUS ASPHALT SURFACE
- SAB ADOPTABLE DETENTION BASIN
- SAB ADOPTABLE DETENTION BASIN MAINTENANCE PATH
- PRIVATE RAINGARDENS
- FOREBAY RAINGARDEN WITHIN BASIN
- G EXISTING GULLY AND STORM WATER DRAINAGE
- EXISTING COMBINED WATER DRAINAGE
- EXISTING FOUL WATER DRAINAGE

DRAINAGE STRATEGY

SURFACE WATER

SURFACE WATER RUNOFF WILL BE COLLECTED WITHIN A POSITIVE SYSTEM AND DISCHARGED INTO THE EXISTING STORM WATER SYSTEM LOCATED TO THE EAST OF SITE INFRONT OF THE STONYBROKE PROPTERY, AT A GREENFIELD DISCHARGE RATE OF 9.0lit/sec/ha. MULTIPLE SuDS FEATURES HAVE BEEN PROPOSED ACROSS SITE, INCLUDING RAINGARDENS TO CAPTURE ROOF RUNOFF, POROUS SURFACES TO COLLECT HIGHWAY RUNOFF AND A FINAL DETENTION BASIN.

IN ACCORDANCE WITH THE SAB STANDARDS

STANDARD 1

- REUSE – WATER RE-USE VIA THE HYDRATION OF PLANTING WITH RAINWATER BUTTS TO BE PROVIDED PER PLOT
- INFILTRATION – GI REPORT 'TF-25-045-CA – TIER 2' HAS SHOWN THAT INFILTRATION IS NOT VIABLE FOR THIS SITE.
- WATER BODY – THERE ARE NO WATER BODIES NEAR THE DEVELOPMENT SITE, THEREFORE DISCHARGE INTO A WATER BODY IS NOT POSSIBLE
- SURFACE WATER NETWORK – A CONNECTION IS PROPOSED INTO AN EXISTING SURFACE WATER SEWER EAST OF THE DEVELOPMENT
- PRIVATE COMBINED SEWER – NOT REQUIRED FOR THIS DEVELOPMENT

STANDARD 2

- FIRST 5mm OF RAINFALL FROM ALL IMPERMEABLE AREAS WILL BE INTERCEPTED AND STORED WITHIN A VARIETY OF SuDS FEATURES, INCLUDING RAINGARDENS, DETENTION BASIN AND POROUS SUBBASE
- SURFACE WATER SYSTEM TO BE DESIGNED FOR A RETURN PERIOD OF 100 YEARS +30% CLIMATE CHANGE
- GIVEN THE SITE TOPOGRAPHY, ANY EXCEEDANCE WILL DISCHARGE ONTO THE HIGHWAY.

STANDARD 3

- WATER QUALITY WILL BE ACHIEVED THROUGH THE USE OF VARIOUS SUDS TECHNIQUES INCLUDING RAINGARDENS, POROUS SURFACING AND A DETENTION BASIN

STANDARD 4

- VARIOUS SuDS FEATURES ACROSS THE SITE WILL HELP TO PROVIDE VALUABLE AMENITY CONTRIBUTION AND WILL FORM A KEY PART OF LANDSCAPING PROPOSALS FOR THE SITE. THE PROPOSED RAINGARDENS AND DETENTION BASIN WILL AID IN PROVIDING VISUAL AMENITY ACROSS THE SITE IN THE FORM OF PLANTED SOFT LANDSCAPED AREAS.

STANDARD 5

- THE DETENTION BASIN ALONG WITH THE RAINGARDENS WILL MAKE A POSITIVE CONTRIBUTION TO URBAN BIO-DIVERSITY, PROVIDING HABITAT AND FOOD FOR INVERTEBRATES AND BIRDS. RAINGARDENS WILL BE PLANTED WITH NATIVE PLANT SPECIES TO PROVIDE DENSE AND DURABLE COVER OF VEGETATION THAT CREATES APPROPRIATE HABITAT FOR INDIGENOUS SPECIES.

STANDARD 6

- SLOW GROWING VEGETATION TO BE PLANTED IN THE SOFT LANDSCAPED AREAS TO REDUCE THE NEED FOR MAINTENANCE AND REPLACEMENT.

FOUL DRAINAGE

- A GRAVITY FOUL SYSTEM IS PROPOSED FOR THE DEVELOPMENT DISCHARGING INTO THE EXISTING LINE LOCATED WITHIN THE B4314, INFRONT OF THE PENDRE PROPERTY.
- FOUL DRAINAGE ARRANGEMENT SUBJECT TO DCWW APPROVAL UNDER S104.

Rev.	Detail	By	Date
B	DRAINAGE STRATEGY AMENDED TO SUIT LATEST ARCHITECTS LAYOUT	DH	17.09.26
A	DRAINAGE STRATEGY ADDED TO PLAN; OFF-SITE DRAINAGE STRATEGY REFERRED	DH	25.06.26

Revisions

Reinforcement schedules nos.

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Client: ateb

Project: RESIDENTIAL DEVELOPMENT AT ASH LANE, TAVERNSPITE

Drawing Title: DRAINAGE STRATEGY PLAN

PRELIMINARY

Project No.	Drawing No.	
C2351	C-SK04	
Scales 1:250	Date 24.06.26	Revision B
Drawn DH / Checked TE	Sheet Size A1	

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