

DETENTION BASIN 1 DETAILS

MIN T.O.B (TOP OF BANK) LEVEL: 114.80mAOD
MAX WATER LEVEL (1 IN 100 + 25% CC EVENT): 114.50mAOD
IL: 114.30mAOD
FREEBOARD: 300mm
BASE AREA 94.64m²
AREA AT MAX WATER LEVEL: 123.19m²
AREA AT MIN T.O.B LEVEL: 170.27m²
ADDITION TO CONTRIBUTING DRAINAGE AREA: 0.020ha
FREE STORAGE VOLUME: 21.9m³

NOTE 1

CHIEFTAIN OR SIMILAR APPROVED) HOUSING 150 HDPE PENSTOCK STOP VALVE WITH NITRILE SEAL (ALTHON PRA-G 150 OR SIMILAR APPROVED)

ALLOWS DRAINAGE SYSTEM TO SHUT OFF IN THE EVENT OF POLLUTANTS LEAKING INTO THE NETWORK. ENSURES NO DOWNSTREAM CONTAMINATION AFTER POLLUTANT EVENT OR DURING CLEAN-UP.

NOTE 2

SURFACING OF THE YARD COMPRISES OF MOT TYPE 2 STONE AS EXISTING. TO BE RETAINED WITH NO CHANGE OF SURFACING PROPOSED AND WILL DRAIN AS EXISTING. ANY OVERLAND FLOWS WILL CONTINUE TO DISCHARGE AT GREENFIELD RATE.

DETENTION BASIN SIZED TO ACCOMMODATE THE 1 IN 100 YEAR RAINFALL EVENT WITH A 25% CLIMATE CHANGE ALLOWANCE.

NOTE

ROUTING OF EXISTING DRAINAGE TAKEN FROM AQUATECH DRAIN SERVICES CCTV SURVEY AND TOPOGRAPHIC SURVEY REF: RG22 2422

OFCC450/1 ORFILO
ORIFICE FLOW CONTROL CHAMBER
INCLUDING DEBRIS SCREEN
CL 114.80
IL 114.20
ORIFICE DIAMETER 20mm

WEIR OVERFLOW WITH EROSION PROOF
MATTEING
OVERFLOW LEVEL AT 114.50mAOD
1.00m BASE-WIDTH
1:3 GRADIENT
IN THE EVENT OF DRAINAGE NETWORK
FAILURE THE SURFACE WATER WILL
OVERFLOW AT THIS POINT AND
EVENTUALLY DISCHARGE INTO THE
EXISTING DITCH.

200mm DEPRESSION UPSTREAM OF THE
OUTFALL TO INTERCEPT SILT/ SEDIMENT
DEPTH 0.20m
BANK SLOPE 1:3
IL 114.10

1m WIDE BERM AT T.O.B LEVEL

EXISTING SURFACE
WATER OUTFALL
IL 113.38

IF THE SWALE OVERTOPS
DURING AN EXCEEDANCE
EVENT, THE SURFACE
WATER WILL FLOW
NORTH-EAST AND
DISCHARGE INTO THE
EXISTING DITCH.

CULVERT
SOFFIT 113.56
INVERT 113.38

EXISTING KLARGESTER SEWAGE
TREATMENT PLANT.
LOCATION IS INDICATIVE.
CONFIRMED CAPCITY FOR
ADDITIONAL PROPOSED FOUL
FLOW.

EXFW1

S6
EMERGENCY SHUTOFF VALVE
CHAMBER (ALTHON PRA-G 150
OR SIMILAR)
(SEE NOTE 1 FOR FURTHER
DETAILS)
CL 114.80
IL 113.65
POSITIONED TO ACCOMMODATE
A 150mm CONCRETE SURROUND

S7
CL 114.40
IL 113.63 (TBC)

S1.006 150Ø 1:117 PVC-U

S1.005 150Ø @ 1:150 PVC-U

S1.004 150Ø @ 1:2 PVC-U

REVTMENT HEADWALL 2
IL 114.30

EXCEEDANCE FLOWS
TO DISCHARGE
TOWARDS
DETENTION BASIN.

S2
CL 115.00
IL 114.50

F2
CL 115.00
IL 114.30
F1.001 100Ø PVC-U
@1:80 (TBC)

S2.000 150Ø @ 1:143 PVC-U

NEW CHAMBER TO BE CONSTRUCTED ON
EXISTING FOUL DRAINAGE RUN SUBJECT
TO INVERT LEVEL ACHIEVING DEPTH
REQUIRED. IF EXISITNG DRAINAGE IS TOO
SHALLOW, PROPOSED TO CONNECT TO
EXFW3.

F3
CL 115.00
IL 114.25(TBC)

EXFW3
CL 114.00
IL 112.80

EXFW4

EXRG1
CL 115.20

MAX WATER LEVEL: 114.50mAOD
T.O.B LEVEL: 114.80mAOD

REVTMENT
HEADWALL 1
IL 114.30

S4
SILT TRAP
CL 115.15
IL 114.35

S1.003 150Ø @ 1:38

S1.002 150Ø @ 1:109 PVC-U

S3
CL 115.35
IL 114.43

S2.001 150Ø @ 1:130 PVC-U

F1.000 100Ø @ 1:27 PVC-U

S1.001 150Ø @ 1:22 PVC-U

S1.000 150Ø @ 1:14 PVC-U

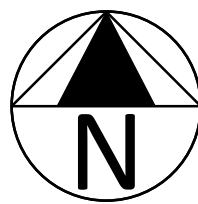
RE1
CL 116.00
IL 115.60

RE2
CL 114.95
IL 114.55

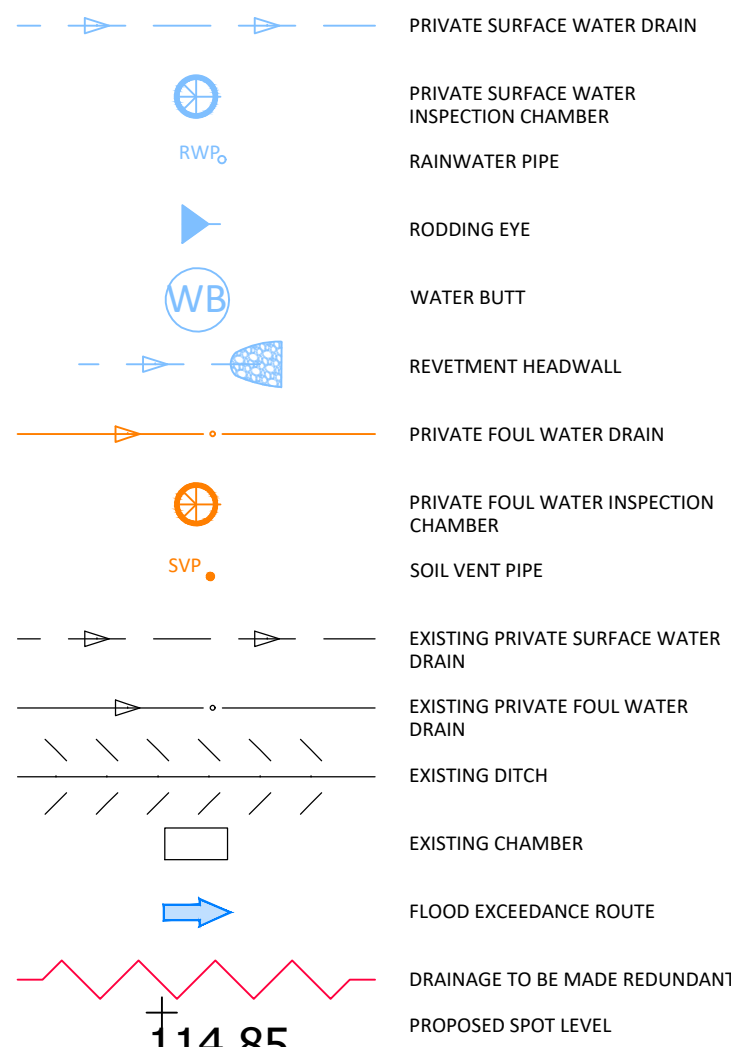
EXISTING HEADWALL
IL 114.68

EXISTING SVP
FOUL PAN
CONNECTION
WITHIN THE
CONTAINER.

EXISTING SVP
FOUL PAN
CONNECTION
WITHIN THE
CONTAINER.



KEY



DRAINAGE NOTES- PRIVATE DRAINAGE
1. ALL PRIVATE DRAINAGE WORKS TO BE CARRIED OUT IN ACCORDANCE WITH BUILDING REGULATIONS PART H.
2. ALL FOUL WATER PRIVATE PIPES TO BE 100MM DIAMETER UNLESS OTHERWISE STATED. MIN GRADIENT 1:80 WHERE CONNECTED TO A MINIMUM OF 1WC, OTHERWISE MIN 1:40. ALL SURFACE PRIVATE DRAINAGE PIPES TO BE 100MM DIAMETER UNLESS OTHERWISE STATED WITH A MIN GRADIENT OF 1:100 UNLESS OTHERWISE STATED.
3. ALL SURFACE WATER PIPES 600MMØ OR LESS TO BE POLYPIPE RIDGIDRAIN OR SIMILAR APPROVED. SURFACE WATER PIPES GREATER THAN 600MMØ TO BE POLYPIPE RIDGIDRAIN XL OR SIMILAR APPROVED. ALL 100MM DIAMETER FOUL WATER DRAINS TO BE POLYPIPE POLYSEWER OR SIMILAR APPROVED. AS ONLY ONE BUILDING IS IN QUESTION, NO ADDITIONAL VENTING IS REQUIRED (AAV'S ONLY).
4. ALL DRAINAGE ARRANGEMENTS ARE TO BE CARRIED OUT TO THE SATISFACTION OF THE LOCAL AUTHORITY BUILDING INSPECTOR ONSITE.
5. PRIVATE FOUL WATER DRAIN ROUTE UNDER SLAB IS INDICATIVE ONLY; BEDDING, PIPE MATERIAL AND PENETRATION OF PROPERTY WALL DETAILS BY OTHERS.
6. CONTRACTOR TO REVIEW ALL BELOW SLAB PRIVATE DRAINAGE AND ENSURE, WHERE REQUIRED, FOUNDATION PENETRATIONS/PLINTHS ARE PROVIDED IN ACCORDANCE WITH STRUCTURAL ENGINEER REQUIREMENTS.

F	UPDATED LANDSCAPE PLAN	13/01/26	JJ	RP
E	UPDATED DRAINAGE STRATEGY	09/01/26	JJ	RP
D	UPDATED ISSUE	10/11/25	JJ	BF
C	UPDATED TO ADDRESS COMMENTS	07/11/25	JJ	RP
B	UPDATED ISSUE	05/08/25	JJ	RP
A	FIRST ISSUE	01/08/25	JJ	RP
REV.	DESCRIPTION	Date	BY	CHK

DESIGN BY:



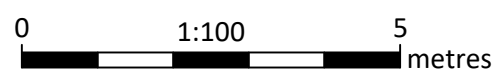
CLIENT:

AGM

DRAWING STATUS:

DISCHARGE OF PLANNING CONDITIONS

SCALE @ A1:



PROJECT:

CUCKFIELD GOLF CENTRE

TITLE:

DRAINAGE STRATEGY

PROJECT No:	DRAWING No:	REV:
19963	19963-TUM-DD-XXX-0200	F