KEY

- APPROX SITE BOUNDARY
- EXISTING WESSEX WATER SEWERS
- EXISTING PRIVATE SHARED DRAINAGE
- PRIVATE SHARED DRAINAGE TO BE DIVERTED
- PROPOSED ROUTE OF DIVERTED DRAINAGE
- PROPOSED PRIVATE FOUL WATER DRAINAGE
- PROPOSED PVT SURFACE WATER DRAINAGE
- 5m OFFSET FROM SOAKAWAY
- PROPOSED PERMEABLE PAVING
- PROPOSED SOAKAWAY
- PROPOSED ADOPTABLE FOUL DRAINAGE
- SVP FOUL WASTE POINT (REF ARCHITECTS DETAILS FOR EXACT LOCATIONS)
- RWP RAINWATER DOWNPIPE (REF ARCH DETAILS)
- 150Ø PERFORATED PIPE -> PERFORATED PIPE OUTLET FOR PERMEABLE PAVING

N

THE GREEN

APPROX LOCATION OF 225Ø WESSEX WATER FOUL WATER SEWER

5402
CL 114.06
IL 112.52
DATA FROM WW RECORDS

NEW ADOPTABLE MIN 1350Ø PCC MANHOLE OVER 225Ø WW SEWER.
LEVELS ASSESSED AND GRAVITY CONNECTION FEASIBLE.
IL 112.216 225Ø
IL 112.341 100Ø
SUBJECT TO WW SECTION 106 APPLICATION.

INVESTIGATE LEVELS AND SUITABILITY FOR RE-USE FOR FOUL WATER CONNECTION TO PUBLIC SEWER.

5401
CL 113.37
IL 111.88
DATA FROM WW RECORDS

DEMARCATION CHAMBER

F9 2.6m 100Ø FW / 1:10

F8 ORIFICE CHAMBER 150Ø PERFORATED PIPE

10.9m 100Ø FW / 1:15.6

14.1m 150Ø SW

IL113.70 RE

F6

EXMH5
CL 114.33
IL UNKNOWN

EXISTING DRAINAGE ROUTE ASSUMED SHARED

1

FFL 114.30

F7 11.6m 150Ø SW

7.1m 100Ø FW / 1:10.1

RE IL113.70

RWP SVP

DINING HALL STUDY KITCHEN UTILITY SITTING ROOM GARDEN ROOM

4

FFL 114.30

S4

10.0m 100Ø FW / 1:16.6

11.3m 150Ø SW / 1:7.5

F5

S5

7.6m 150Ø SW

RE IL113.70

APPROX ROUTE OF DIVERTED FOUL DRAINAGE. GRADIENT TO SUIT EXISTING.

INVESTIGATE EXISTING DRAINAGE AND UPSTREAM CONNECTIONS. INDICATIVE DIVERSION SHOWN TO RETAIN LIVE CONNECTIONS. DISUSED DRAINAGE LESS THAN 1.5m DEEP SHOULD AS FAR AS PRACTICABLE BE REMOVED. OTHER PIPES SHOULD BE SEALED AT BOTH ENDS AND AT ANY POINT OF CONNECTION AND GROUT FILLED TO ENSURE RATS CANNOT GAIN ACCESS.

11.8m 100Ø FW

EXISTING DRAINAGE ROUTE ASSUMED SHARED

F4

EXMH1
CL 115.11
IL UNKNOWN

EXMH2
CL 114.66
IL UNKNOWN

EXMH3
CL 114.62
IL UNKNOWN

EXISTING DRAINAGE ROUTE ASSUMED SHARED

13.8m 150Ø SW

IL114.60 RE

EXMH4
CL 114.60
IL UNKNOWN

GARAGE
FFL 114.60

RE-BUILD MANHOLE BASE OR INSTALL NEW CHAMBER OVER EXISTING FOUL MANHOLE FOR PROPOSED FOUL WATER SEWER DIVERSION.

GARAGE
FFL 115.20

BIN STORE

S6

9.3m 100Ø FW / 1:23

F3

5.4m 150Ø SW / 1:10

S3

150Ø SW

7.1m 100Ø FW / 1:18

MINIMUM AREA OF 350m² OF PERMEABLE PAVING (TYPE C SEALED SYSTEM) WITH SUB-BASE LAYER 200mm DEEP TO SUPPLEME REQUIRED ATTENUATION STORAGE. BASE LA 1:300 (FLAT) WITH 150mmØ PERFORATED PIPE OUTLET AT LOW POINT, CHECK DAMS MAY BE USED IN STEEPLY SLOPING AREAS. OUTLET T BE FITTED WITH 50mmØ ORIFICE PLATE FLOW CONTROL CHAMBER.

APPROX LOCATION OF GEO-CELLULAR SOAKAWAY (39m² x 2m DEEP) SITED 5m FROM BUILDINGS AND 2m FROM SITE BOUNDARY. 74m³ STORAGE REQUIRED BASED ON ROOF AREA 565m² AND HARDSTANDING AREA 420m² INFILTRATION RATE FROM SITE TESTING IS 1.26 x 10^{-5}m/s. SIZED FOR 100 YEAR + 40% CLIMATE CHANGE ALLOWANCE. AQUACELL CORE-R UNITS BY WAVIN OR SIMILAR APPROVED.
AVERAGE CL 114.60,
INCOMING PIPE IL 112.65 (150Ø)
TANK BASE LEVEL 110.80
TOP OF TANK 112.80.

F2 10.7m 150Ø SW

S2

F1 11.6m 150Ø SW

IL114.60 RE

3

FFL 115.20

14.7m 150Ø SW / 1:24

2

FFL 115.20

S1

11.6m 150Ø SW

10.9m 150Ø SW

IL114.60 RE

GARAGE
FFL 115.10

11.0m 150Ø SW

ORIFICE CHAMBER

1.2m 150Ø PERFORATED PIPE

300mmØ ORIFICE FLOW CONTROL CHAMBER WITH 50mmØ OPENING. CONTROFLOW 300 SERIES UNIT BY SEL ENVIRONMENTAL LTD REF SUDS01001 OR SIMILAR APPROVED.

IL114.50 RE

GARAGE
FFL 115.10

INFILTRATION RATE 1.26 x 10^{-05}m/s BASED ON SI TESTS CARRIED OUT ON SITE IN AUGUST 2022.

NOT FOR CONSTRUCTION

SUBJECT TO APPROVAL FROM LOCAL AUTHORITY

Reference Drawings:

1. TOPOGRAPHIC LAND SURVEY.
2. ARCHITECT'S PROPOSED SITE PLAN.
3. WESSEX WATER SEWER RECORD DRAWINGS.
4. STRUCTURAL SOLUTIONS CONTRIBUTING AREAS PLAN REF 9672BAC-P501, MANHOLE SCHEDULE AND DRAINAGE NOTES REF 9672BAC-506 AND SOAKAWAY BUILDING OFFSETS PLAN 9672BAC-P504.

REV	DATE	AMENDMENT		
P1	05/10/22	UPDATED FOR DETAILED DESIGN	DT	

DRAWING STATUS: FOR INFORMATION ONLY

PROJECT: THE BIDDESTONE ARMS, CHIPPENHAM, SN14 7DG

TITLE: DRAINAGE LAYOUT

SCALE	DATE	SHEET SIZE
1:200	28/09/22	A3

PROJECT NO.	DRAWING NO.			REV.
9672BAC	P505	RV	DT	P1

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