PROPOSED FOUL WATER TO CONNECT TO ONSITE EXISTING FOUL WATER SEWER WITHIN SITE. FURTHER INVESTIGATIONS TO CHECK DEPTH AND ROUTING BY WAY OF CCTV SURVEY. DISCHARGE TO BE AGREED WITH WESSEX WATER BY WAY OF SECTION 106 BEFORE DRAWING CAN BE TAKEN TO CONSTRUCTION LEVEL.

EX WW MH
CL: 14.25
IL:

< EX WW 375Ø SW SEWER

< EX WW 300Ø FW SEWER

EX WW MH
CL: 18.63
IL:

F6
CL: 14.00
IL: 13.15

EX FW PR
CL: 13.97
IL: 12.733

S1 300Ø
CL: 14.00
IL: 13.40

S4 300Ø
CL: 14.00
IL: 13.40

F4
CL: 14.00
IL: 12.750

FFL 14.150

F3
CL: 14.00
IL: 13.010

F2
CL: 14.00
IL: 13.040

F1
CL: 14.00
IL: 13.15

S5
CL: 13.80
IL: 13.097

S2
CL: 14.00
IL: 13.073

S3
CL: 13.65
IL: 12.65

S7 CP 300Ø
CL: 13.584
IL: 11.800
SUMP: 11.40

< EX WW 600Ø SW SEWER >

< EX WW 750Ø FW SEWER

< EX WW 1350Ø FW SEWER

EX WW MH
CL: 13.45
IL:

CREWS HOLE ROAD

EXISTING WESSEX WATER MANHOLE INVERT LEVEL TO BE CONFIRMED PRIOR TO CONSTRUCTION OF PROPOSED OVERFLOW OUTLET PIPE. CONNECTION AGREEMENT TO BE GAINED BY WAY OF SECTION 106 VIA WESSEX WATER.

EX WW MH
CL: 13.086
IL: tbc

S10 CP 600Ø
CL: 13.382
IL: 11.80
SUMP: 11.40

< EX WW 600Ø SW SEWER

BRE365 TESTS HAVE CONFIRMED SUITABLE CONDITIONS FOR SURFACE WATER SOAKAWAY SOLUTION, HOWEVER, IN A STORM EVENT WHERE THE SOAKAWAY TANK MAY NOT PERFORM IN LINE WITH THE TEST RESULTS AND GROUND CONDITIONS, AN EMERGENCY OVERFLOW TO THE PUBLIC SEWER HAS BEEN PROPOSED AS AN OPTIONAL FEATURE.

INVERT LEVEL OF OVERFLOW PIPE HAS BEEN SET ABOVE THE TOP OF TANK LEVEL, THEREFORE WILL ONLY DISCHARGE FLOWS IN AN EXTREME EVENT GREATER THAN 100 YEAR EVENT + CLIMATE CHANGE

S9
CL: 13.080
IL: 12.030

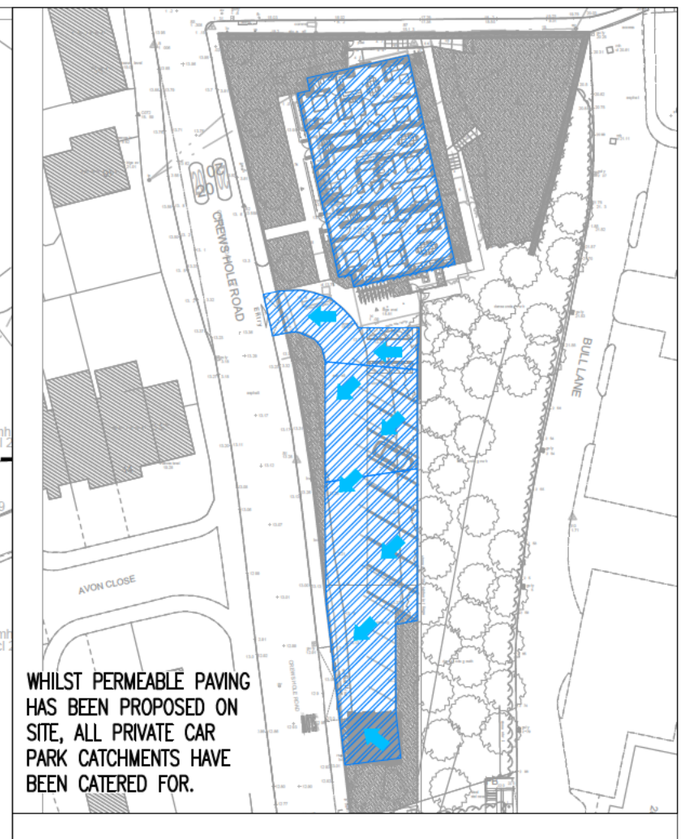
CELLULAR SOAKAWAY & ATTENUATION TANK

TOP OF TANK: 12.60m (700mm MINIMUM COVER)
INVERT: 11.40m
W: 3.50m
L: 17.0m
D: 0.8m
INFILTRATION RATE: 1.3x10-5 m/hour (worst rate of 3no. tests)

TANK SIZE TO CATER FOR 720m² IMPERMEABLE AREA, ANY OTHER AREAS ACROSS SITE TO BE SELF SATURATING SOFT LANDSCAPED AREA.

SOAKAWAY TANK HAS BEEN SIZED TO ACCOMMODATE THE 100 YEAR + 45% STORM EVENT WITH THE INFILTRATION RATE AS SPECIFIED ABOVE. THE TANK HAS ALSO BEEN DESIGNED AND CHECKED TO ENSURE THE HALF DRAIN DOWN TIME IS WITHIN A 24 HOUR PERIOD.

THE TANK INVERT LEVEL HAS BEEN SET TO ENSURE THE 10 YEAR STORM EVENT WATER LEVEL IS LESS THAN THE INVERT LEVEL OF THE LOWEST INCOMING PIPE AS PER BRE365 REQUIREMENTS.



WHILST PERMEABLE PAVING HAS BEEN PROPOSED ON SITE, ALL PRIVATE CAR PARK CATCHMENTS HAVE BEEN CATERED FOR.

PROPOSED IMPERMEABLE AREA 1 = 720m²

OVERLAND FLOW ROUTES

GENERAL NOTES

THIS DRAWING TO READ IN CONJUNCTION WITH ALL RELEVANT STRUCTURAL AND ARCHITECTURAL DRAWINGS AND SPECIFICATIONS.

ALL DIMENSIONS TO BE CHECKED ON SITE BY THE CONTRACTOR / FABRICATOR PRIOR TO COMMENCEMENT OF WORKS.

ALL DIMENSIONS ARE IN MILLIMETRES UNLESS STATED OTHERWISE.

ALL WORKS TO BE CARRIED OUT IN STRICT ACCORDANCE WITH THE ENGINEER'S SPECIFICATIONS, RELEVANT BRITISH STANDARDS AND WHERE APPLICABLE LOCAL AUTHORITIES REQUIREMENTS.

DRAINAGE DETAILS NOTE:

FOR INFORMATION PURPOSES THE FOLLOWING SHOULD BE ASSUMED:

ALL MANHOLE AND SEWER TRENCH DEPTH SHOULD PROVIDE A MINIMUM COVER OF 0.6m (LANDSCAPING) & 1.2m (TRAFFIC AREAS) TO THE SOFFIT OF THE PIPE. FURTHER LEVEL INFORMATION WILL BE CALCULATED IN DUE COURSE.

ALL PPIC'S WITHIN PRIVATE SHARED DRIVE WAY TO HAVE C250 150 CONCRETE SURROUND LIDS

ALL MANHOLES WITHIN TRAFFICKED AREAS TO HAVE D400 COVER LID.

IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO LOCATE ANY SERVICE/UTILITY APPARATUS IN THE VICINITY OF THE WORKS BEFORE DRAINAGE INSTALLATION HAS COMMENCED. ANY CONFLICTS IMPACTING DRAINAGE TO BE REPORTED TO ENGINEER TO RESOLVE ACCORDINGLY.

DRAINAGE CONSTRUCTION DETAILS INCLUDING PERMEABLE PAVING TO BE PROVIDED AT POST PLANNING DETAILED DESIGN.

DRAINAGE KEY

- EXISTING ANGLIAN WATER SURFACE WATER SEWER
- EXISTING ANGLIAN WATER FOUL WATER SEWER
- EXISTING PRIVATE FOUL WATER SEWER (ROUTE TBC)
- PROPOSED PRIVATE FOUL WATER PPIC (450Ø UNLESS OTHERWISE STATED).
- PROPOSED PRIVATE SURFACE WATER PPIC (450Ø UNLESS OTHERWISE STATED).
- PROPOSED PRIVATE FOUL WATER SEWER
- PROPOSED PRIVATE SURFACE WATER SEWER
- PROPOSED PRIVATE SW HYDROBRAKE CONTROL CHAMBER
- PROPOSED SW GULLY (LOCATIONS TBC)
- PROPOSED SW ACO CHANNEL
- PROPOSED SW FILTER DRAIN

DGC CONSULTING ENGINEERS

PROJECT: The Bull Inn		TITLE: Drainage Strategy	
DATE: 14.11.2024	PROJECT ADDRESS: 333 Crews Hole Rd, Bristol BS5 8BQ		DESIGNED BY: SP
SCALE (@ A2): 1:200	SHEET NO.: C-001	REV: P01	APPROVED BY: CE

Revision Schedule

Rev	By	Description	Date
P03	SP	Updated to Include Filter Drain.	06.01.25
P02	SP	Updated to Include Latest Site Plan Internal Arrangement	05.12.24
P01	SP	First Issue	14.11.24

PURPOSE OF ISSUE: Planning Submission