



PIPEWORK / BEDDING TO BE ENCAPSULATED IN TERRAM GRADE 1000 WHEN IN CLOSE PROXIMITY TO TREES

INFILTRATION FEATURES AS DEPICTED HAVE BEEN DESIGNED BASED ON AN INFILTRATION RATE OF 1.179×10^{-4} m/s IN ACCORDANCE WITH BRE 365 SOAKAWAY TESTING UNDERTAKEN IN TP02 BY GROUNDSOLVE LTD (25/05/2022). THE DESIGN MAY BE SUBJECT TO ON SITE INSITU TESTING.

THIS DRAWING HAS BEEN PRODUCED BY COMPARING INFORMATION FROM VARIOUS RECORD PLANS AGAINST THE TOPOGRAPHICAL SURVEY DATA OBTAINED. AS SUCH THE ACCURACY CANNOT BE GUARANTEED AND THE CONTRACTOR IS TO VERIFY THE EXISTING LAYOUT & LEVELS PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS.

NOTE A
THE DRAINAGE SURVEY WAS UNABLE TO LOCATE THE OUTFALL FROM THIS LOCATION. CONTRACTOR TO CONFIRM LOCATION OF OUTFALL TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF WORKS ON SITE. IN THE FIRST INSTANCE PROPOSALS AS SHOWN WILL BE MAINTAINED.

NOTE B
THERE ARE INSTANCES WHERE FOUL AND SURFACE WATER APPEAR TO DISCHARGE TO THE SAME GULLY. IN THE FIRST INSTANCE IT SHOULD BE DETERMINED IF THE FOUL OUTLET IS STILL IN USE, IF THE OUTLET IS NO LONGER REQUIRED IT SHOULD BE SUITABLY REMOVED. IF IT STILL IN USE A NEW SEPARATE BELOW GROUND CONNECTION WILL BE REQUIRED TO ALLOW SURFACE WATER RUNOFF TO DISCHARGE TO THE SEPARATE SURFACE WATER NETWORK.

PROPOSED NEW ACCOMMODATION BLOCK DRAINAGE IN ABEYANCE - DETAILS TBC

NOTES

- THE WORKS SHALL BE IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS, NATIONAL BUILDING SPECIFICATION (NBS) AND SEWERS FOR ADOPTION, 7TH EDITION.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS DRAWINGS, ARCHITECTS DRAWINGS, MECHANICAL AND ELECTRICAL DRAWINGS AND SPECIFICATIONS.
- THE LOCATION, LINE & LEVEL OF ALL KNOWN EXISTING BURIED SERVICE MAINS AND DRAINAGE PIPEWORK INDICATED ON THE DRAWINGS ARE APPROXIMATE AND FOR GUIDANCE PURPOSES ONLY. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THEIR EXACT LINE & LEVEL, BY WAY OF HAND EXCAVATED TRIAL PITS, PRIOR TO THE COMMENCEMENT OF ANY EXCAVATION WORKS ON SITE. THE CONTRACTOR SHALL TAKE ALL NECESSARY PRECAUTIONS TO MAINTAIN THE STRUCTURAL INTEGRITY OF ALL ABOVE AND BELOW GROUND SERVICE MAINS / DRAINAGE INSTALLATIONS.
- THE CONTRACTOR MUST COMPLY WITH ALL CURRENT LEGISLATION RELATING TO HEALTH & SAFETY.
- THE MAIN CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY WORKS, AND IS ALSO RESPONSIBLE FOR THE SAFE MAINTENANCE AND STABILITY OF EXISTING BUILDINGS AT ALL TIMES.
- THE MAIN CONTRACTOR IS RESPONSIBLE FOR THE MITIGATION OF ALL OCCURRENCES OF GROUND WATER DURING THE CONSTRUCTION PERIOD.
- THE CONTRACTOR SHALL MAKE ALLOWANCE FOR RAISING / LOWERING ALL EXISTING ACCESS COVERS & FRAMES TO SUIT NEW FINISHED LEVELS.
- ALL SOFT / HARD PAVED AREAS AFFECTED BY THE WORKS SHALL BE FULLY REINSTATED UPON COMPLETION OF THE WORKS. ALL SURFACE MARKINGS DAMAGED BY THE WORKS SHALL BE FULLY REINSTATED.
- ALL SURPLUS EXCAVATED MATERIAL SHALL BE DISPOSED OF OFF SITE.
- ALL LEVELS ARE TO ORDNANCE DATUM
- CLASS 5 BEDDING & SURROUND TO BE USED WHEN PIPE COVER EXCEEDS 0.9m. UNLESS OTHERWISE NOTED.
- CLASS 2 BEDDING & SURROUND TO BE USED WHEN PIPE COVER IS BELOW 0.9m. UNLESS OTHERWISE NOTED.
- ALL GULLY CONNECTIONS SUBJECT TO TRAFFIC LOADING TO HAVE CLASS 2 BEDDING & SURROUND.
- ALL MANHOLES SHALL BE WATERTIGHT.

KEY

- EXISTING FOUL DRAIN
- EXISTING SW DRAIN
- EXISTING COMBINED FLOW DRAIN
- EXISTING PUMP MAIN
- EXISTING WATER BODY
- EXISTING DRAIN TO BE GRUBBED UP
- EXISTING YARD GULLY (ASSUMED 1000 OUTLET)
- EXISTING FOUL OUTLET (ASSUMED 1000 OUTLET)
- PROPOSED SW DRAIN
- PROPOSED INFILTRATION UNITS

P02	SA2 LOCATION REVISED	JR	RH	JP	30.01.2025
REV	DESCRIPTION	BY	CHK	APR	DATE

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PURPOSE OF ISSUE FOR INFORMATION STATUS S2

PROJECT LLYSFASI CAMPUS DRAINAGE IMPROVEMENT WORKS

TITLE DRAINAGE SCHEME SURFACE WATER DRAINAGE IMPROVEMENTS PLAN

CLIENT COLEG CAMBRIA LLYSFASI

DRAWN BY JR CHECKED BY RH APPROVED BY JP

DATE 15.01.2024 SCALE (@ A1) 1:250 PROJECT NUMBER 101002

DRAWING NUMBER 0602 REV P02

SURFACE WATER RUNOFF FROM THE AREA TO THE EAST OF THE HOSTEL (0.032 HA) WILL NEED TO DISCHARGE DIRECT TO THE WATERCOURSE DUE TO LACK OF AVAILABLE SPACE. SURFACE WATER RUNOFF FROM THE REMAINDER OF THE HOSTEL (0.095 HA) CAN DISCHARGE TO SA1. SURFACE WATER RUNOFF FROM ADMIN BUILDING (0.066 ha) CAN DISCHARGE TO SA2 UNDER CURRENT CIRCUMSTANCES.

ALTHON HEADWALL REF H3C TO SUIT 3000 PIPE TO FACILITATE SURFACE WATER FLOW TO WATERCOURSE. IL 131.080 100 YEAR +40%CC FREE DISCHARGE = 8.4 l/s

BREAK INTO EXISTING CULVERT TO FACILITATE CONNECTION OF NEW 3000 DRAIN IL 129.810 (3000) IL 129.510 (6000) 100 YEAR +40%CC FREE DISCHARGE = 9.6 l/s

INFILTRATION FACILITIES			
CONSISTING OF AQUACELL 'CORE-R' GEO-CELLULAR BLOCKS AT 95% VOID RATIO TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S GUIDANCE & RECOMMENDATIONS			
DESIGNATION	EXISTING AREAS m ² / HA	DIMENSIONS	100 YEAR +40%CC WATER LEVEL (m)
SA1	HOSTEL 1,270 / 0.127 - 320 / 0.032 = 950 / 0.095	(91.2m ²) 30 UNITS x 4 UNITS x 4 UNITS (15.0m x 4.0m x 1.6m)	128.324
SA2	ADMIN 660 / 0.066	(49.4m ²) 5 UNITS x 13 UNITS x 4 UNITS (2.5m x 13.0m x 1.6m)	128.216

EXISTING PRIMARY SETTLEMENT TANKS, PACKAGE TREATMENT PLANT 1 AND PACKAGE TREATMENT PLANT 2 TO BE CAPPED OFF / REMOVED AND REPLACED WITH PROPOSED 2NO. BIODISC BN WITH 63000L BALANCE TANK TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS GUIDANCE AND RECOMMENDATIONS

TREATED EFFLUENT TO DISCHARGE TO NANT Y GARTH VIA NEW OUTFALL

A VARIATION TO THE EXISTING DISCHARGE CONSENT WILL BE REQUIRED FOR EFFLUENT DISCHARGE TO NANT Y GARTH