



SERVICES NOTES

- LEGEND**
-  PROPOSED CONCRETE SLAB
-  PROPOSED BUILDING

GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES UNLESS NOTED OTHERWISE.
2. ALL LEVELS ARE SHOWN IN METRES UNLESS NOTED OTHERWISE.
3. DO NOT SCALE FROM THE DRAWING. USE FIGURED DIMENSIONS ONLY.
4. ANY DISCREPANCIES TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
5. THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, ENGINEERS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
6. EXISTING SERVICES HAVE NOT BEEN SHOWN BUT ARE PRESENT - THE CONTRACTOR IS TO LIAISE WITH ALL STATUTORY AUTHORITIES PRIOR TO THE COMMENCEMENT OF ANY WORKS.
7. TEMPORARY WORKS DESIGN BY OTHERS.
8. DESIGN RISK ASSESSMENTS AND METHOD STATEMENTS ARE TO BE PROVIDED TO THE PRINCIPLE CONTRACTOR PRIOR TO THE COMMENCEMENT OF ANY WORKS.

DRAINAGE NOTES:

1. MH COVERS AND FOOTWAYS TO CONFORM TO BS EN 124:
 - HIGHWAYS AND FOOTWAYS TO FRONT OF BUILDINGS (D400)
2. TYPE 5 BEDDING AND SURROUND TO ALL PIPES EXCEPT IN THE FOLLOWING CIRCUMSTANCES, IN WHICH TYPE 2 BEDDING AND SURROUND ARE TO BE USED:
 - HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS VEHICLE WEIGHT IN EXCESS OF 7.5 TONNES, DEPTH LESS THAN 1.2m.
3. ALL EXISTING MANHOLE INVERTS TO BE CHECKED AND REPORTED TO THE ENGINEER PRIOR TO THE COMMENCEMENT OF DRAINAGE WORKS. EXISTING PIPE CONNECTIONS ARE TO BE CCTV SURVEYED AND INSPECTED BY THE ENGINEER AND LOCAL AUTHORITY. IF THE PIPE CONNECTION IS FOUND TO BE DAMAGED OR IN DISTRESS, THE CONTRACTOR IS TO CARRY OUT REMEDIAL WORKS OR PROVIDE A NEW CONNECTION TO THE EXISTING SEWER (PIPE SIZE AND GRADIENT TO BE DETERMINED BY THE ENGINEER.
4. THE GRADIENTS INDICATED AGAINST THE DRAIN RUNS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL INSTALL DRAIN TO THE INVERT LEVELS SHOWN FOR EACH MANHOLE OR OTHER INDICATED POSITION.
5. ALL JOINING IN ACCORDANCE WITH MANUFACTURERS TECHNICAL ADVICE & SPECIFICATION.
6. ALL NON ADAPTABLE DRAINAGE TO BE THE STANDARD UPVC 110mm, 150mm DRAINAGE AND MANUFACTURED TO BS-EN 14101 AND BS 4660 UNLESS NOTED OTHERWISE.
7. ALL STORM WATER DRAINAGE TO BE A MINIMUM OF 150mm DRAINAGE UNLESS OTHERWISE NOTED.
8. PRIOR TO ORDERING ANY MATERIALS THE CONTRACTOR IS TO CONFIRM MANUFACTURER/PIPE MATERIAL AND GRADE PROPOSED WITH WATER AUTHORITY.
9. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH DETAILS DRG 14995/c501 (NOTE SECTION X-X IS CONCEPT ONLY).

DATE	BY	DESCRIPTION
01/02/03	UNIC/RGP	LAYOUT REVISED TO SUIT ARCHITECTS LAYOUT
02/03/03	UNIC/RGP	QMAX REPLACED WITH MD150 - S3 OMITTED
03/03/03	UNIC/RGP	ADDITIONAL DRAINAGE CHANNEL AND SW RUN
04/03/03	UNIC/RGP	RELOCATED CENTRAL OF BIPLATES
05/03/03	UNIC/RGP	RE2 - S3 DRAIN RUN RELOCATED, OVERFLOW
06/03/03	UNIC/RGP	DRAINAGE ADDED/OVERFLOW ADDED
07/03/03	UNIC/RGP	CONSTRUCTION LAYOUT ADDED - DRAINAGE
08/03/03	UNIC/RGP	CHANNELS ADDED
09/03/03	UNIC/RGP	A/GROUND STORAGE REPLACES U/GROUND
10/03/03	UNIC/RGP	REFERENCE TO SECTION A.A. ADDED
11/03/03	UNIC/RGP	STORAGE TANKS ADDED. NOTES REVISED
12/03/03	UNIC/RGP	PRELIMINARY ISSUE

rev.	drawn	chkd.	apprvd	date	description
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Client
MID & WEST WALES FIRE SERVICE

Project
EARLSWOOD CFBT FACILITY
BRITON FERRY
SA11 2JT

Title
DRAINAGE STRATEGY



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date	drawn	checked	approved
21.11.22	NRC	FP 21.11.22	MJ 21.11.22

scale @ A1	project no.
1:100	14995

status	drg. no.	rev.
P	14995_C500	08

DRAWING STATUS
Approval, AB - As-Built, C - Construction, D - Draft, P - Preliminary, T - Tender

GPR REFLECTIONS

GROUND RADAR

The material surrounding and particularly above buried services can effect whether the services can be resolved using GPR. Reinforced concrete, buried metallic objects, the presence of moisture or clay and changes in the material construction can lead to poor data resolution.

As we have no information with respect to the material overlaying any services the GPR method can only give a guaranteed accuracy of 50% Depth, results using GPR are typically accurate to within 10% with a horizontal accuracy of 150mm. These figures will vary as the velocity of the ground is assumed at 80m/s. The results of the GPR survey should be treated with caution as there is no guarantee that any service shown actually exists, only a possibility that something can be seen on the records.