



- GENERAL NOTES**
- DO NOT SCALE THIS DRAWING.
  - CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER.
  - ANY DISCREPANCY TO BE REPORTED IMMEDIATELY TO THE ENGINEER.
  - THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS, SUBCONTRACTORS AND SPECIALISTS DRAWINGS AND SPECIFICATIONS.
- KEY**
- DCWM ADOPTABLE FOUL DRAINAGE SYSTEM
  - LA ADOPTABLE STORM DRAINAGE SYSTEM
  - PRIVATELY MAINTAINABLE STORM DRAINAGE SYSTEM
  - PRIVATELY MAINTAINABLE PERFORATED STORM DRAINAGE
  - PRIVATELY MAINTAINABLE POROUS DRIVEWAY SURFACE
  - PRIVATELY MAINTAINABLE RAINGARDEN COLLECTING RWP
  - SAB ADOPTABLE DETENTION BASINS

- DRAINAGE NOTES**
- SURFACE WATER DRAINAGE:**  
 SURFACE WATER RUNOFF IS TO BE COLLECTED AND TREATED THROUGH THE USE OF A VARIETY OF SuDS FEATURES, INCLUDING PLANTED RAINGARDENS, POROUS SURFACES AND INFILTRATION BASIN. ON SITE INFILTRATION TESTING HAS DEEMED INFILTRATION TO BE A VIABLE SOLUTION WITHIN THE GENERAL LOCALITY, WITH AN INFILTRATION RATE OF  $1 \times 10^{-4}$  m/s ACHIEVED.
- S1**
- RE-USE - SURFACE WATER RUNOFF FROM DOWNPIPES IS TO BE COLLECTED WITHIN RAINGARDENS, WITH WATER BEING REUSED THROUGH THE HYDRATION OF PLANTING
  - INFILTRATION - ON SITE INFILTRATION TESTING HAS INDICATED THAT INFILTRATION IS LIKELY TO BE A VIABLE SOLUTION WITHIN THE LOCALITY, ON SITE INFILTRATION TESTING PROVIDED A RATE OF  $1 \times 10^{-4}$  m/s, WHICH HAS BEEN UTILISED FOR THIS STRATEGY. FURTHER ON SITE INFILTRATION TESTING IS RECOMMENDED AT THE BASE OF THE FORMED BASIN.
  - WATER COURSE - NOT REQUIRED FOR THIS DEVELOPMENT
  - SURFACE WATER SOWERS - NOT REQUIRED FOR THIS DEVELOPMENT
  - COMBINED SEWER - NOT REQUIRED FOR THIS DEVELOPMENT
- S2**
- THE FIRST 5mm OF RAINFALL IS TO BE CATERED FOR VIA INFILTRATION WITHIN BOTH POROUS SURFACES AND THE PROPOSED INFILTRATION BASIN
  - THE SURFACE WATER SYSTEM HAS BEEN DESIGNED FOR A RETURN PERIOD OF 100YR +30% CLIMATE CHANGE, WITH A SAFETY FACTOR OF 10 APPLIED.
  - GIVEN SITE LEVELS, IN THE EVENT OF A BLOCKAGE, EXCEEDANCE FLOWS ARE TO BE DIRECTED SOUTHWARDS. AN OVERFLOW IS RECOMMENDED FROM THE BASIN INTO THE STORM SYSTEM IN LLUEST Y BRYN ROAD.
- S3**
- WATER QUALITY BETTERMENT IS TO BE PROVIDED THROUGH THE USE OF VEGETATED RAINGARDENS AND POROUS SURFACES.
- S4**
- THE PROPOSED RAINGARDENS WILL FORM AN IMPORTANT PART OF THE LANDSCAPING DESIGN, WITH SUITABLE SPECIES SELECTED FOR PLANTING TO IN KEEP WITH SURROUNDING ENVIRONMENT, THUS AIDING TO IMPROVE THE VISUAL AMENITY OF THE DEVELOPMENT
- S5**
- PLANTING WITHIN THE PROPOSED RAINGARDENS WILL HELP TO AID LOCAL BIODIVERSITY, ATTRACTING NECTAR FEEDING INSECTS, AND PROVIDING COVERAGE FOR NATIVE SPECIES.
- S6**
- THE CONVEYANCE PIPEWORK WITHIN THE HIGHWAY WILL BE OFFERED FOR ADOPTION UNDER A S38 APPLICATION. THE BASIN WILL BE OFFERED FOR SAB ADOPTION.
  - THE SUDS SOLUTION HAS BEEN DESIGNED IN ACCORDANCE WITH THE SUDS MANUAL WITH THE SITE GENERALLY SERVED BY SHALLOW SuDS FEATURES
- FOUL DRAINAGE STRATEGY:**
- IT IS THE PROPOSED THAT THE NEW DEVELOPMENT IS TO CONNECT INTO THE EXISTING FOUL DRAINAGE NETWORK WITHIN LLUEST Y BRYN ROAD.
  - A S104 AND S106 APPLICATION WILL BE REQUIRED AT DETAIL DESIGN.

Rev.	Detail	By	Date

Revisions

Reinforcement schedules nos.



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Client: **OBSIDIAN DEVELOPMENT LTD**

Project: **PROPOSED HOUSING DEVELOPMENT LLUEST Y BRYN CARMARTHEN**

Drawing Title: **DRAINAGE STRATEGY SHEET 1 OF 2**

PRELIMINARY

Project No. <b>C2120</b>	Drawing No. <b>C-SK04</b>
Scales: 1:250	Date: 18.07.24
Drawn: GC	Checked: DH
Sheet Size: A1	Revision: -

ALL PROPOSED FFL'S SUBJECT TO ±250mm

DRAWING TO BE USED FOR PLANNING PURPOSES ONLY

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