NORTH

RAINGARDEN FEATURE.
200mm DEPRESSION
*400mm ENGINEERED TOPSOIL
300mm OPEN GRADED DRAINAGE LAYER WITH UNDERDRAIN.
AREA 88m²
* TOPSOIL WILL NEED TO BE INCREASED IF ACCOMMODATING TREES WITHIN RAINGARDENS

ORIFICE FLOW CONTROL (20mm DIA.)

ORIFICE FLOW CONTROL (25mm DIA.)

ORIFICE FLOW CONTROL (30mm DIA.)

ORIFICE FLOW CONTROL (80mm DIA.)

ORIFICE FLOW CONTROL (54mm DIA.)

ORIFICE FLOW CONTROL (130mm DIA.)

ORIFICE FLOW CONTROL (90mm DIA.)

FFL 266.000

FFL 262.025

HYDROBRAKE FLOW CONTROL CHAMBER
DESIGN HEAD 1m
RESTRICTED
DISCHARGE 7.0l/s UNIT
REF:MD-SHE-0124-7000-1000-7000

SDS RAINWATER HARVESTING ACTIVE ATTENTUATION TANK
DEPTH = 0.9m
AREA = 132m²
STORAGE VOLUME = 111.2m³
INCLUSIVE OF FILTER CHAMBERS, PUMPING CHAMBERS AND CONTROL CHAMBERS. REFER TO M&E FOR WATER FEED ROUTES AND TELEMETRY & POWER.

HYDROBRAKE FLOW CONTROL CHAMBER
DESIGN HEAD 2m
RESTRICTED
DISCHARGE 46.2l/s UNIT
REF:MD-SHE-0271-4620-2000-4620

SDS AQUASWIRL TREATMENT CHAMBER

RAINGARDEN FEATURE.
200mm DEPRESSION
*400mm ENGINEERED TOPSOIL
300mm OPEN GRADED DRAINAGE LAYER WITH UNDERDRAIN.
AREA 194m²
* TOPSOIL WILL NEED TO BE INCREASED IF ACCOMMODATING TREES WITHIN RAINGARDENS

SDS GEOLITE 400 CELLULAR ATTENUATION TANK
DEPTH = 1.5m
AREA = 332.5m²
STORAGE VOLUME = 473.8m³
INVERT LEVEL = 258.887mAOD
MAX. COVER LEVEL = 261.704mAOD
MIN. COVER LEVEL = 261.100mAOD

HYDROBRAKE FLOW CONTROL CHAMBER
DESIGN HEAD 1.6m
RESTRICTED
DISCHARGE 15.5l/s UNIT
REF:MD-SHE-0169-1550-1600-1550

SDS GEOLITE 400 CELLULAR ATTENUATION TANK
DEPTH = 1.5m
AREA = 42.5m²
STORAGE VOLUME = 60.5m³
INVERT LEVEL = 256mAOD
MAX. COVER LEVEL = 258.960mAOD
MIN. COVER LEVEL = 258.300mAOD

RAINGARDEN FEATURE.

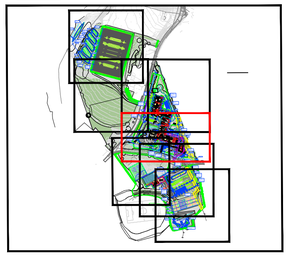
NOTE
FOR PRICING ALL LAND DRAINS TO BE INSTALLED WITH RODDING EYE AT HEAD OF RUNS AND CATCHPIT CHAMBERS REQUIRED AT 50m CENTRES AND ENDS OF RUNS.

0.0m 10.0m 20.0m 25.0m
SCALE 1:250m

NOTES:

1. ALL SURFACE WATER DRAINAGE SUBJECT TO SAB APPROVAL AND FURTHER SAB CONSULTATION.
2. REFER TO S278 HIGHWAY DRAINAGE LAYOUT FOR DRAINAGE WORKS WITHIN THE ADOPTED HIGHWAY.
3. ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH THE SUDS MANUAL, BUILDING REGS PART H AND WELSH MINISTER STANDARDS WHERE APPLICABLE.
4. REFER TO SUDS SECTIONS FOR DETAILS OF VARYING SUBBASE THICKNESS.
5. DEPTH OF ENGINEERED TOPSOIL WITHIN RAINGARDEN FEATURES DEPENDANT ON PLANTING PROPOSALS.
6. REFER TO EXISTING REMEDIAL WORKS DRAWING FOR RETAINED SECTIONS OF EXISTING DRAINAGE.
7. FURTHER SURVEY REQUIRED TO ESTABLISH INVERT LEVELS AT OUTFALLS AND TO PROVE CONDITION OF SOUTHERN SURFACE WATER OUTFALL.

KEY PLAN:



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DO NOT SCALE FROM THIS DRAWING.

CONTRACTORS MUST CHECK ALL DIMENSIONS ON SITE. ONLY FIGURED DIMENSIONS ARE TO BE WORKED FROM. DISCREPANCIES MUST BE REPORTED IMMEDIATELY TO CAMBRIA CONSULTING LIMITED BEFORE PROCEEDING.

THE CONTRACTOR IS TO REFER TO THE SPECIFICATION, FULL SCHEDULE OF RESIDUAL RISKS IN THE CONTRACT DOCUMENTATION AND ALSO TO INFORMATION FROM OTHER DESIGNERS, IN PARTICULAR THE M&E CONSULTANT REGARDING EXISTING LIVE SERVICES.

THIS SYMBOL IS USED TO HIGHLIGHT INSTANCES OF RISK WITHIN THE CONSTRUCTION PROCESS.

ALWAYS CHECK FOR LATER REVISIONS OF THIS DRAWING.

KEY:

- EXISTING SURFACE WATER
- EXISTING FOUL WATER
- PROPOSED FOUL DRAIN
- PROPOSED SURFACE WATER DRAIN
- PROPOSED LAND DRAIN
- PROPOSED CHANNEL DRAIN
- PROPOSED KERB DRAIN
- THRESHOLD DRAIN
- THRESHOLD DRAIN (HEAVY LOAD)
- DCWW EASEMENT
- ASPHALT FOOTWAY (LIGHT VEHICLE LOADING)
- 3G PITCH
- PERMEABLE PAVING
- MUGA RESURFACING
- RAINGARDEN / BIORETENTION FEATURE
- SWALE
- POTENTIAL ADDITIONAL SUDS AREAS
- RAINWATER HARVESTING TANK
- CELLULAR ATTENUATION TANK
- EASEMENT / SERVICE CORRIDOR
- G — PROPOSED GULLY
- FG — PROPOSED FOUL GULLY
- RI — RAINGARDEN INLET
- RO — RAINGARDEN OVERFLOW
- RAINGARDEN WEIR
- SWALE INLET / OUTLET (ALTHON PCC HEADWALL)
- RAINWATER HARVESTING FEED (RWP CONNECTIONS ONLY)
- SA — INFORMAL STONE SOAKAWAY FOR THRESHOLD DRAINS ONLY

Rev.	Description	By	Chk	App
C10	FOUL GULLYS UPDATED IN ENERGY CENTRE. RAINGARDEN CONNECTIONS UPDATED.	BW	BW	BW
		09/06/25		
C09	LEVEL 02 SVPS UPDATED. ATTENUATION TANKS UPDATED TO SUIT SDS DETAILS.	BW	BW	BW
		03/04/25		
C08	PIPE NETWORK AMENDED UPSTREAM OF GREASE TRAP .	BW	BW	BW
		26/02/25		
C07	GREASE TRAP UPDATED. DOWNSTREAM PIPE NETWORK INCREASED.	BW	BW	BW
		30/01/25		
P01	FIRST ISSUE.	DC	BW	BW
		28/02/23		

Client:

Cyngor Bwrdeistref Sirol MERTHYR TUDFUL MERTHYR TYDFIL County Borough Council

WILLMOTT DIXON CONSTRUCTION

Project:

BLESSED CARLO ACUTIS CATHOLIC SCHOOL

Drawing Title:

DRAINAGE LAYOUT PLAN (SHEET 2 OF 7)

Drawing No.

BCA CAM VX XX DR C 0506

Project Originator Vol. Level Type Role Number

Status: A5 CONSTRUCTION

Scale @A1: 1:250

Rev.: C10

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