



VEHICULAR PARKING BAYS TO BE SURFACED IN UNBOUND MATERIAL/ PERMEABLE PAVING TO PROMOTE NATURAL DRAINAGE AND INTERCEPTION

RAINWATER HARVESTING HANK TO PROVIDE NON-POTABLE (AND NON-PROCESS) WATER FOR DEVELOPMENT

APPROX. 25m³ FOR 'DOMESTIC' ONLY USES. CLIENTS TO ADVISE IF ADDITIONAL WATER USES COULD BE MET BY RAINWATER HARVESTING

CLASS 1, FULL RETENTION SEPARATOR TO PROVIDE WATER QUALITY PROTECTION FOR FLOWS FROM AREAS WHICH ARE SUBJECT TO HGV AND TRAFFIC LOADING

BELOW GROUND GEOCELLULAR ATTENUATION TANK
APPROX. 1140m³ (760m² X 1.5m DEEP)

FLOW CONTROL MANHOLE TO ATTENUATE FLOWS TO GREENFIELD RUNOFF RATES
HIGH LEVEL OVERFLOW PROVISION TO BE MADE

PROPRIETARY TREATMENT DEVICE TO PROVIDE ADDITIONAL TREATMENT TO SURFACE WATER FLOWS PRIOR TO DISCHARGE TO WATERCOURSE.

MANUAL PENSTOCK VALVE CHAMBER FITTED TO OUTLET TO ISOLATE SITE FROM WIDER WATER ENVIRONMENT IN EVENT OF ONSITE SPILLAGE/ FIRE/ EMERGENCY

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WHERE APPROPRIATE RAINWATER PIPES TO BE DISCONNECTED FROM FORMAL DRAINAGE SYSTEM AND DISCHARGE TO PERMEABLE AREAS (WHICH MAY BE FORMALISED INTO RAIN GARDENS/ BIORETENTION).

AS INFILTRATION IS UNLIKELY TO BE FEASIBLE SUSTAINABLE OVERFLOW ALLOWANCE TO BE MADE INTO DRAINAGE NETWORK.

PRIVATE FOUL WATER PUMPING STATION TO LIFT FLOWS VIA RISING MAIN TO WELSH WATER FOUL SEWERAGE SYSTEM.
CONSENTS TO BE OBTAINED PRIOR TO OPERATION

FOUL WATER RISING MAIN DISCHARGING TO WELSH WATER SEWER TO THE SOUTH EAST AT ST23792001.
EXACT ROUTE TO BE CONFIRMED AT DETAILED DESIGN IN DISCUSSION WITH WELSH WATER AND LOCAL STAKEHOLDERS.

CDM RESIDUAL RISKS
The work shown on this drawing is both familiar to the designers and routinely safely built in similar circumstances by competent contractors.
Risks are not considered significant.
Relevant data is included in the Pre-Construction Information Pack...
Signed: BG Date: 17/06/19

DO NOT SCALE THIS DRAWING FOR CONSTRUCTION PURPOSES.
CONTRACTOR TO CHECK ALL DIMENSIONS AND REPORT ALL ERRORS AND OMISSIONS TO THE ENGINEER.

KEY

- PROPOSED FOUL WATER DRAIN
- PROPOSED SURFACE WATER DRAIN (ROOF WATER)
- PROPOSED SURFACE WATER DRAIN (ROADWAY WATER)
- PROPOSED SURFACE WATER CHANNEL DRAIN
- PROPOSED FOUL WATER RISING MAIN
- SITE BOUNDARY
- EXCEEDENCE FLOW ROUTES

- NOTES:**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT DRAWINGS, SPECIFICATIONS AND REPORTS.
 - LAYOUT INFORMATION SHOWN IS TAKEN FROM GSDA DRAWING 1383-PL101 REV A DATED 24/08/2020. CLARKEBOND TAKE NO RESPONSIBILITY FOR ITS CONTENT OR ACCURACY.
 - ALL DRAINAGE WORKS ARE TO BE UNDERTAKEN IN STRICT ACCORDANCE WITH CURRENT BUILDING REGULATIONS AND CODES OF PRACTICE, SEWERS FOR ADOPTION 7TH EDITION AND THE CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 7TH EDITION WHERE APPLICABLE.

Rev	Detail	By	Chk	Date
P02	FOUL AND SURFACE WATER ADJUSTED TO SUIT REVISED SITE PLAN AND NEW COMMENTS	BG	MKR	26/08/20
P01	FOUL AND SURFACE WATER STRATEGY ADJUSTED TO SUIT COMMENTS RECEIVED THROUGH CONSULTATION PROCESS	BG	MU	12/02/20

clarkebond
MULTIDISCIPLINARY ENGINEERING CONSULTANTS
GF Suite, Bickleigh House,
Park Five Business Centre,

Client
CoGen LTD.

Project
CoGen ENERGY RECOVERY FACILITY CARDIFF

Drawing Title
PROPOSED DRAINAGE STRATEGY

Purpose of Issue
PLANNING APPROVAL

ClarkeBond Project No: **E05092** Status: **S2**

Project	Originator	Zone	Level	Type	Role	Drw No.
XX	CLK	XX	XX	DR	C	7000

Scale	Date	Revision
1:350	JUNE 2019	P02

Drawn	Checked	Sheet Size
BG	MU	A1

25m

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