



2200

2200

SEE INSET

INSET
SCALE 1:1000

Possible pinch point at existing bridge
Further survey required

Footpath to connect site
to local network

A 4229

0078

Lay-by

Track

2082

Ty Tanglwyst Farm

Cattle Grid

Tank

3287

Track

5086

Track

NOTES:

- SUBJECT TO PROPOSED LEVELS DESIGN AND DRAINAGE MODELING.
- SITE INVESTIGATION TO CONFIRM WHETHER INFILTRATION IS FEASIBLE.
- DRAINAGE STRATEGY SUBJECT TO SAB CONSULTATION. DISCHARGE RATES, SUDS AND ATTENUATION PROVISIONS TO BE AGREED WITH THE SAB.
- GREASE TRAPS TO BE FITTED DOWNSTREAM OF ALL COMMERCIAL KITCHENS.

SUD STANDARDS:

STANDARD S1: SURFACE WATER DESTINATION

PRIORITY LEVEL 1: COLLECTED FOR REUSE:
THE FEASIBILITY OF A SMALL RAINWATER TANK WILL BE EXPLORED IN THE PETROL FILLING STATION.

PRIORITY LEVEL 2: INFILTRATION TO GROUND:
NO INFILTRATION TESTING HAS BEEN UNDERTAKEN AS YET. BRE365 SOAKAWAY TESTING HAS BEEN SCHEDULED.

PRIORITY LEVEL 3: NEAREST SURFACE WATER BODY:
THERE IS A WATERCOURSE SOUTH OF THE OF THE SITE THAT WILL TAKE TO THE ACCESS ROAD AND FOOTPATH. DUE TO THE SITE TOPOGRAPHY ONLY THE SOUTHERN EMBANKMENT CAN BE DISCHARGED INTO THE WATERCOURSE.

PRIORITY LEVEL 4: SURFACE WATER SEWER, DRAIN, HIGHWAY DRAIN:
NOT CONSIDERED. HIGHER PRIORITY LEVEL ACHIEVABLE.

PRIORITY LEVEL 5: COMBINED SEWER:
NOT CONSIDERED. HIGHER PRIORITY LEVEL ACHIEVABLE.

STANDARD S2: SURFACE WATER RUNOFF HYDRAULIC CONTROL

THE DISCHARGE INTO THE EXISTING LAND DRAINAGE SYSTEM WILL BE RESTRICTED TO GREENFIELD RUNOFF RATES. THE GREENFIELD RUNOFF RATE (4.66L/S) HAS BEEN CALCULATED USING REF#2.

ALL PARKING SPACES ARE PERMEABLE PAVING AND WILL COMPLY WITH THE 5MM INTERCEPTION CRITERIA. RUNOFF FROM THE ADJACENT FOOTPATHS AND ROADS WILL SHED INTO A SERIES OF SHALLOW SWALES TO ENSURE INTERCEPTION COMPLIANCE.

ATTENUATION STORAGE FOR THE 1 IN 100YR+40% EVENT WILL BE BE PREDOMINANTLY STORED WITHIN OPENGRADED SUBBASE BENEATH THE SWALES AND CELLULAR STORAGE.

STANDARD S3: WATER QUALITY

POTENTIAL FOR POLLUTED RUNOFF WITHIN THE PETROL STATION WILL BE VERY HIGH AND WILL NEED TO BE TREATED SEPARATELY BEFORE ENTERING INTO THE SURFACE WATER NETWORK. THE SWALE SYSTEM WILL PROVIDED SUFFICIENT TREATMENT FOR FOOTPATHS AND ROAD RUNOFF THROUGHOUT THE SITE. A SIMPLE INDEX APPROACH ASSESSMENT WILL BE UNDERTAKEN FOR THE SAB APPLICATION.

STANDARD S4&S5: AMENITY & BIODIVERSITY

A SERIES OF RAINGARDEN / SWALES WILL BE USED THROUGHOUT THE SITE AND BE VISIBLE TO VISITORS AND STAFF. VISITORS AND STAFF WILL BE GREETED WITH A RAIN GARDEN IN THE CENTRAL ROUNDABOUT FROM THE ACCESS ROAD.

STANDARD S6: CONSTRUCTION, OPERATION & MAINTENANCE


MAINTENANCE ACCESS WILL BE PROVIDED TO THE SOUTH. THE SWALES WILL BE DESIGNED TO BE SHALLOW AND EASILY MAINTAINED WITH LESS RELIANCE ON A PIPED AND MANHOLE SYSTEM. THE ORIFICE FLOW CONTROLS WILL INCLUDE WEIR OVERFLOWS AND MESH GUARDS. THE SYSTEM WILL BE DESIGNED IN ACCORDANCE WITH SUDS MANUAL.

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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:

-  PROPOSED SW DRAINAGE
-  PROPOSED FW DRAINAGE
-  PROPOSED TREATED EFFLUENT FW DRAINAGE
-  PROPOSED OVERFLOW COWL
-  PROPOSED HIT & MISS KERBING
-  PROPOSED KERB DRAIN
-  PROPOSED LAND DRAIN
-  PROPOSED RAINWATER HARVESTING TANK
-  PROPOSED RAINWATER HARVESTING FEED
-  PROPOSED RAINGARDEN INLET
-  PROPOSED ORIFICE FLOW CONTROL CHAMBER WITH WEIR WALL AND MESH GUARD (PLASTIC)
-  PROPOSED HYDROBRAKE FLOW CONTROL CHAMBER WITH LEVEL OVERFLOW
-  PROPOSED SURFACE WATER CULVERT HEADWALL
-  PROPOSED SURFACE WATER ROAD GULLY
-  INDICATIVE RAINWATER PIPE
-  PROPOSED CELLULAR STORAGE
-  PROPOSED SEWAGE TREATMENT PLANT
-  PROPOSED RAINGARDEN
-  PROPOSED PERMEABLE PAVING (ROAD)
-  PROPOSED PERMEABLE PAVING (FOOTPATH)
-  PROPOSED DISTRIBUTION TRENCH
-  PROPOSED FILTER STRIP
-  EXISTING WATERCOURSE
-  PROPOSED CULVERT
-  SITE BOUNDARY

P03	SITE LAYOUT REVISED	DC	BW	BW
				12/02/24
P02	RAIN GARDENS REMOVED	DC	BW	BW
				28/11/23
Rev.	Description	By	Chk	App

Client:
DRAYCOTT GROUP

Project:
JUNCTION 37 M4

Drawing Title:
PROPOSED DRAINAGE STRATEGY PLAN (OVERALL)

Drawing No.
CC2507 CAM XX XX DR C 0500

Project Originator Vol. Level Type Role Number

Status: S1 PRELIMINARY Scale @A1: 1:500 Rev. P03

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