

Permeable Paving
 Area 35m²
 Depth of sub-base 0.35m
 Porosity 0.30
 Total Volume 3.68m³
 Designed for all storm events up to and including the 1 in 100 year event plus 45% climate change

Permeable Paving
 Area 428m²
 Depth of sub-base 0.35m
 Porosity 0.30
 Total Volume 44.94m³
 Designed for all storm events up to and including the 1 in 100 year event plus 45% climate change

Aco Multidrain
 Shallow Channel
 Drain M100D NO 075

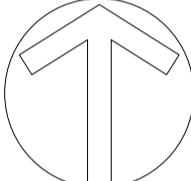
Aco Multidrain
 Shallow Channel
 Drain M100D NO 075

Legend

- Existing AW surface water drainage
- Existing AW foul water drainage
- Private surface water drainage
- Private foul water drainage
- Private permeable pavement
- Private attenuation tank
- Road gully
- Rodding Eye
- Perforated pipe collector drain within permeable pavement
- Raised DPC
- Underbuild
- Retaining ≤ 450mm (gravel board fences)
- Retaining > 450mm (retaining walls-details tbc)
- Timber Sleepers Max 500mm high
- Proposed levels
- Proposed channel drains

12.050m

- CDM REGULATIONS HEALTH AND SAFETY INFORMATION FOR THE LIFETIME OF THE DEVELOPMENT**
- The hazards noted are in addition to the normal hazards and risks faced by a competent contractor when dealing with the type of works detailed on this drawing.
- CONSTRUCTION RISKS:**
1. Confined spaces entry and hazardous waste materials / gas.
 2. Deep manholes / excavations
 3. Contractor to locate services prior to excavating.
 4. Asbestos may be present.
 5. Drainage connection requires deep excavation temp works required.
 6. Existing drains to be protected and bridged over where required.
 7. Works adjacent to busy road and river. Watercourse / ditch levels may rise rapidly following prolonged periods of rainfall.
 8. Soft ground during construction works particularly in wet weather.
- MAINTENANCE/CLEANING RISKS:**
1. Pavement deformations to be monitored to ensure that designed pavement falls are maintained. If significant deformation is allowed to propagate then localised flooding could occur.
 2. Silt traps, drainage channels, permeable pavements and inspection chambers require the standard periodic inspection regime and cleaning routine to ensure continued performance and reduce the risk of flooding.
 3. Works adjacent to Watercourse / ditch. Watercourse / ditch levels will vary during heavy rainfall events.
 4. Potential for soft spots within existing ground after heavy rainfall.
 5. Dust and noise impacts on local community.
 6. Existing live services and utilities.
 7. Deep manholes / excavations - appropriate entry equipment required.
 8. Soft ground during construction works particularly in wet weather.
- DEMOLITION / ADAPTION RISKS:**
1. Apparatus located in landscaped areas has not been designed to support heavy vehicle loading.
 2. The surface water drainage apparatus has been designed to accommodate the designed catchment area. no additional areas of hardstanding can be connection into the system without risk of localised flooding on site.
 3. Hazardous waste materials / dust and debris released into the air.
 4. Deep manholes / excavations - appropriate entry equipment required.
 5. Works adjacent to river. Watercourse / ditch levels will vary during heavy rainfall events.
 6. Unknown ground conditions during / after heavy rainfall.
 7. Soft ground during construction works particularly in wet weather.



PRELIMINARY DRAWING:
 This drawing is for preliminary purposes only and must not be read as a construction issue.
 The design is not fixed and design changes are likely.

Rev	Date	Description	By	Check
P1	31/07/23	Preliminary	RB	PP

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 Work to figured dimensions only.
 All dimensions are in metres unless stated otherwise.
 Do not turn on layers that have been turned off.
 Do not thaw layers that have been frozen.

Client	Cocksedge Building Contractors		
Project	Barrett's Lane, Needham Market Suffolk IP68DL		
Title	Engineering Layout Sheet 1		
Scale @ A1	1:100	Status	Preliminary



Date	Job Number	By	Checked By
July 2023	0304	JS	JRS
Drawing No.	Revision		
C406	P1		