ACO DESIGN – SITE SPECIFIC CHANNEL DESIGN NOTES

SITE/PROJECT NAME : W.I.Hall, Church Road, Ashton

ACO Technologies is pleased to support your design aspirations. Please note however, that under no circumstance will the company act as a project designer or the Principal Designer [as defined in Construction (Design and Management) Regulations 2015: Regulation 5(1)(a)].

Please note that competitor designs may be based on lower rainfall intensities which will result in smaller channels. Please pay particular attention to the design rainfall intensity assumed in the design (see bullet point 1 on Page 2). Where this is the case ACO can offer like-for-like designs using smaller product sizes.

When an order is placed, marked up drawings will be made available on request. To make sense of the marked up drawing it should be read in conjunction with the detailed run specific parts schedule.

The proposed surface water channel drainage system for this scheme is based on the following assumptions and design parameters:

- Rainfall Intensity: 50mm/hr **Lower rainfall intensities (longer storm durations) can be designed for if required to meet any site specific requirements.** All hydraulic calculations are available on request
- Catchment Impermeability factor: **1.0** (The BS 752 compliant value for a runoff coefficient). Although not recommended, where the customer requires an alternative runoff coefficient this can be allowed for in design)
- The design assumes the channel system is laid flat (i.e. with no longitudinal gradient)
- C load class has been assumed for the system. Please refer to ACO installation details for minimum channel installation requirements
- The design has been optimised per channel section to ensure the most efficient single sized product. If required, further optimisation per 2m length can be provided to deliver a more efficient drainage solution

All parts schedules and / or drainage design drawings are based on the information provided. The customer accepts full liability for checking all aspects of the design meet their site specific requirements.

ACO Water Management
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GENERAL DESIGN CAVEAT

All measurements are scaled from drawings provided by the customer. It is assumed that all such drawings are correct and to scale. The customer accepts full liability for any errors in drainage design due to erroneous information extracted from the drawings.

Design output automatically assumes that products are required in 1m lengths unless specified otherwise (apart from Qmax products which are 2m in length); however some channel ranges are also available in 0.5m length. For ACO KerbDrain system certain radius and pre-mitred units are also available, dependent on curves/radii to be achieved and/or site specific tolerances.

The average time for ACO Design Services to prepare a surface water management solution, including a quality check is 7-10 working days. This allows for rigorous quality control of all outgoing designs. However, the size and complexity of a project, and timeliness of customer engagement, will all affect the actual time taken to deliver a robust solution. The customer accepts that their contribution to a successful project outcome will depend on their early and continued engagement in the process.

Where a customer requests ACO produce a quick design, or rapid response, design output may not be subject to ACO's rigorous quality control procedures. In all instances the customer must be vigilant during their cross-checking of parts schedules to ensure that the proposed design meets their requirements.

The customer must also satisfy themselves that all design discharges from ACO's proposed surface water drainage system can be accommodated in any associated downstream pipework.

The Product Load Class (*A15/B125/C250/D400/E600/F900*) specified for a design will have been selected based on the information provided by the customer. Where this information has not been made available ACO may make some design assumptions and it is for the customer to satisfy themselves that such assumptions meet their requirements. During construction phase the customer must install the product in accordance with ACO

recommended installation details. This will ensure the proposed drainage system functions in accordance with the design output.

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